



CONGREGATION OF THE
Sisters of St. Joseph
IN CANADA

ARCHIVES PROCESSING MANUAL



Congregation of the Sisters of St. Joseph in Canada, 2016, revised 2019, 2020, 2021

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Introduction

While all the examples, and the work processes in this manual are drawn from the Congregation of the Sisters of St. Joseph in Canada consolidated archives, the same processes apply to other archives. While each archive may have a different system of arrangement, each should follow the archival principle of respect des fonds, use the Canadian content standard, Rules for Archival Description known as RAD for description, and ensure preservation and safe handling of records.

“None of us is as smart as all of us.” ~ Dublin Core Metadata Initiative. This manual will always be in beta. It undergoes revision whenever someone finds something worth changing. Thanks to our wonderful, amazing practicum students for their comments and suggestions. A huge debt of gratitude is owed to Chris Gonzaga and Lisette Costa of the City of Toronto Archives, for their patient guidance and willingness to share their expertise in helping us understand image digitization. We are grateful to Krista Jamieson for her advice on audio digitization, and Jennifer Vickers for her work on developing our audio digitization workflow. We are indebted to Ben Lalande for his technical expertise on helping build our digital preservation system, and to Grant Hurley for his feedback on our workflow. And most of all, thank you to the Sisters of St. Joseph for their continued support.

We are happy to receive feedback. Please send your comments, and report any errors or omissions to the Archivist, Congregation of the Sisters of St. Joseph in Canada,
cjarchives@cjcanada.org

- Mary Grace Kosta, Congregational Archivist

Section 1: Safety guidelines

Lifting and carrying

Prevent injury to your lower back. Follow these rules for lifting objects:

- Place your feet so that they are shoulder width apart with the load between them.
- Keep arms and elbows close to sides.
- Bend your knees and hips keeping your back straight.
- Hold the load close to your body.
- Lift smoothly and slowly. Use your thigh and leg muscles, not your back.
- Pivot with your feet.
- Make sure your path is clear and that you can see over the load.
- Put the load on the edge of a shelf and push it into place.
- Push a load rather than pull it.
- Always use a cart for a heavy load.

Using step stools

- Carry objects so that you have a clear view and can climb up and down.
- Keep hands above knee level when reaching down.
- Keep navel in center of stool when reaching sideways.
- Don't lean backward.
- Don't stand on tiptoe when reaching up.
- Keep both feet on stool.
- Lift object below shoulder height with two hands when it is up to 12 kg (26 lb.).
- Lift object above shoulder height with two hands when it is up to 8 kg (18 lb.).

Using cutting tools

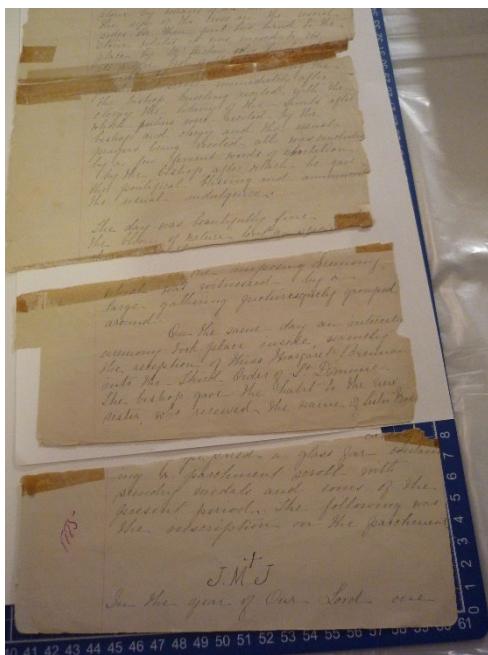
- Keep the blade sharp because dull blades are more likely to cause your hand to slip.
- Keep the blade as short as possible.
- Retract the blade when not in use.
- Cut at an angle away from your body so your hand moves away from your body if it slips.
- Apply a firm pressure, use your arm to move the blade deliberately, and concentrate on the material you are cutting as you always watch the blade.
- You can cut half-way through, flip the material, and cut the other side. Or you can use several shallow cuts rather than one deep cut. Either way is safer.
- Keep your thumb away from the blade.
- Put your other hand away from the blade to avoid cutting it.
- Expose the blade to the next hatch mark and grip the blade with pliers to remove it.
- Store used blades in sharps container.

Section 2: General handling guidelines

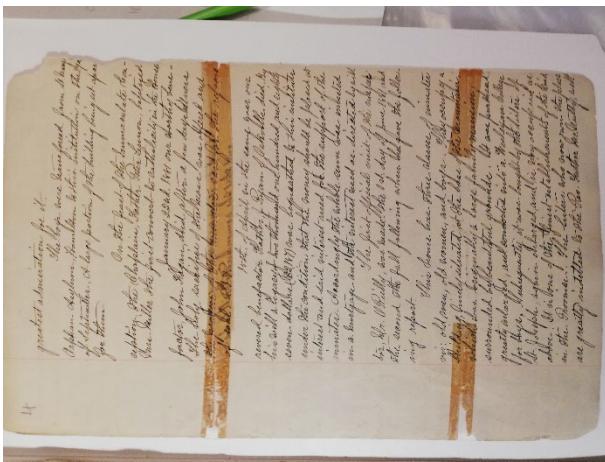
1. No food or drink, or candy, or chewing gum is allowed in the archive.
2. Wash hands before working in the archive and after eating. Don't use hand cream. Remove jewelry. Avoid touching your hair and face when you work.
3. Use only soft pencils, not pens, in the archive. Use a white Staedtler eraser only. You can cut off the blackened bits using an Olfa knife.
4. Always wear cotton or accelerant free nitrile gloves when handling photographs, textiles, and artifacts. Damage results when oils and acids on your hands get on the materials, as shown in these pictures:



5. Handle all photographs and negatives by the edges only. Do not pick up artifacts by their handles but support these from the bottom.
6. Store materials in acid and lignin free, legal size, full tab file folders. When materials are folded or stored in acidic enclosures, paper tears and becomes brown and fragile, as shown in these pictures:



7. Label the enclosure, not the item, using a pencil. Do not write on anything that has items within or below it, such as on an envelope containing a photo, or on a folder on top of another folder.
 8. Cover items not in use with paper to avoid exposure to light, dust, and water.
 9. Do not use PVC (polyvinyl chloride) plastic, tape, post-it notes, staples, rubber bands, metal paper clips, rubber cement, cardboard, and coated plastics. These pictures show damage from rubber bands and tape:



You can check if plastic is safe by sending it to a lab for a photographic activity test, but this costs money. If the plastic has a recycling symbol, you can also check it. The only safe plastics to use are:

-polyethylene such as ziplock bags (HDPE 2 or LDPE 4)

-polyester like mylar film (PET 1)

-polypropylene like VHS boxes (PP 5)

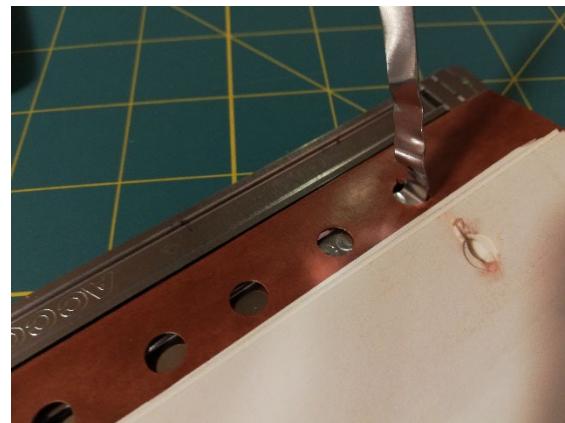
10. Prepare the work area in advance and plan your route before moving objects. Check the object for damage before moving. Always use two hands. Support any object by holding from the bottom or using a support such as matboard or coroplast.

11. Do not set heavy items on top of other items. Do not let items hang off the sides of the work surface. Do not put items or file folders in your lap.
12. When removing an item from a folder, remove the folder from the box or cabinet before removing the item.
13. Remove books from the shelf by grasping the sides, not the spine.
14. Never use the automatic feeder on photocopiers or scanners.
15. Keep your work area clean. Dust off eraser crumbs using a brush, not your hands.

Section 3: Preservation

1. Check that there is no pest or mold infestation.
2. Remove paper clips, rubber bands, coil bindings, binders and folders made of acidic materials. Leave fasteners that are of historic value such as ribbons with seals. Although we don't usually remove staples, if you must do so, use a micro spatula, not a staple remover. These pictures show why we remove metal fasteners:





3. Flatten items. Some items may need humidification to flatten. Do not try to flatten fragile or brittle items or photographs. These will need conservation.
4. Rehouse photographs into unbuffered envelopes or mylar sleeves after dusting with a soft brush.
5. Store bound items spine down in boxes or on the shelf.
6. Separate newspaper clippings from other materials with an acid free paper sling or move to a separate folder.

Section 4: Accessioning

Accessioning is a way to create a preliminary inventory of the materials received, as well as a shelf list.¹

When new material comes into the archive, you want to ask these questions:

- a) Who created the material?
- b) Who donated or transferred the material?
- c) What is the custodial history and did this cause any physical changes to the records?
- d) Are these the original folders?
- e) Is the material in the original order?
- f) Are there any conservation issues?
- g) Are there any access restrictions, e.g., imposed by the donor, due to privacy, or due to the fragility of the materials?

Make sure you complete a *Deed of Gift* agreement if the incoming material is a donation. This establishes legal control over the material. If the incoming material is a transfer, there should be a transfer form with it. Give each new lot of material that is received, whether by donation or transfer, a new accession number. Each new donation or transfer is assigned an accession number which applies to the whole lot, not to separate items in the lot. Every accession number assigned must be recorded in the accession number log. For example:

- 2013-01 Jubilee photographs for 2013
- 2013-02 Associate newsletters 2012
- M2019-01 Jamaica Annals

¹ This discussion benefitted from the Society of American Archivists Arrangement and Description workshop, Pam Hackbart-Dean and Anne Ostendarp, 2021.

Create an accession record in the database. The accession record is a skeletal record which gives contextual information about the donation or transfer.

Fill in the fields in the database which are highlighted in red. You will go back to the database and add more information as you proceed with processing the records.

Acquisition Fields		Administrative Fields	
Accession No.		Storage Location	
Title		Accession Type	
Receipt Date		Processing Status	
Source Name		Admin. Notes	
Source Address		Descriptive Fields	
Contact Name		Provenance	
Contact Address		Responsibility	
Use Conditions		Start Date	
Disposal Terms		End Date	
Date Range		GMD	
Physical Descr.		Arrangement	
Scope/Content		Physical Cond.	
Save and Print Deed of Gift		Record Class. No.	
Data Entry Tip: To quickly produce a Deed of Gift, fill out just the acquisition fields, then click the 'Save > Print Deed of Gift' button		Custodial History	
		History/Bio	
		Descriptive Notes	
		Save and Start New Record	

Accession number (note in the accession number log)

Title (give the name of the collection)

Receipt date (give the year for a transfer, or exact date on *Deed of Gift* form)

Source name (give name of depositor)

Date range (give date range of records)

Physical description (give number of boxes or electronic folders)

Scope and content (provide list of files)

Use conditions (note access restrictions as “open” or “closed”)

Storage location (give box title and number or “long-term storage” for electronic records)

Accession type (note “donation” or “transfer”)

Admin notes (note any copyright or personal information concerns)

Provenance (give name of creator)

GMD (give file formats for electronic records here)

Record class number (give collection number, e.g., fonds or series)

Descriptive notes (give short collection level description)

Section 5 – Processing

Preliminary sorting

As you create a skeletal accession record, you also begin processing. How long will processing take? You can usually estimate 25-35 hours per box (15" x 12" x 10").

Remember the guiding principles of archives known as *respect des fonds*. This is the principle that archives from different creators (the provenance) should not be intermingled, and that the original order in which materials were created and used should be respected.

You start by making a box list when the material is accessioned. As you work, make notes on what series you identify, and what date ranges you encounter. This will be the basis of your arranged series and file list. Follow these steps:²

1. Look over the accession and make notes:
 - a. Identify the order and organization of files, if any.
 - b. Identify the types of materials but do not rearrange yet.
 - c. Note the beginning and end dates of the entire accession.
 - d. Do a rough sort on paper by series or record type. Keep the folders as they are.
Note duplicates and personal information.
 - e. If there is anything you are not going to keep, make a note in the accession record.

² This discussion benefitted from the Society of American Archivists Arrangement and Description workshop, Pam Hackbart-Dean and Anne Ostendarp, 2021.

2. Remove materials from the box, making sure not to disrupt the original order of the records, if there is any. Do basic preservation work on the materials as noted in the preceding section.
3. Continue sorting. Remove any unwanted materials such as duplicates, blank sheets of paper, plastic, or duo tang folders. Discard these materials.
4. As you sort, collect information about the creator, subject, functions documented, significant people, places, and events, major correspondents. It can help to have an organizational chart, resume, retention schedule, or published works.
5. Note if there are any gaps.

Make a box list

The next step is to make a box list.

6. Re-folder if needed.
7. Improve or supply file titles where needed and pencil these onto folders. Use upper case only for the first letters in proper names and first word in a title, and lower case for all following words in the title.

The rules given in the ANSI/ARMA 1-1990 standard should be followed when having to supply new titles. Hyphens and apostrophes may be used but not periods. Use a hyphen after a date to show the date is open (e.g., to the present). Only capitalize proper names and the first word of a title.

Use religious title as written

Pope John Paul II

Sr. Mary Jo Fox

Use official name

St. Paul's Hospital not Rimbey Hospital

Spell out abbreviations	Worker's Compensation Board not WCB
Use only local approved abbreviations	Use RAD abbreviations (RAD B.14) for locations
Delete the word “the”	Keg Restaurant The
Avoid slang, ambiguity, colloquialisms	Alcoholism not Drunkenness
Be consistent with subject terms	Use Sisters but do not use Nuns and Women Religious
Put date last	St. Joseph's Hospice 2013

If there is a title on the folder, check that it accurately reflects the contents of the folder. *Record the date range of materials in the folder in the title.* Use upper case only for the first word in the title and proper names. Be sure to record any title changes on the box list.

When writing the title, use RAD abbreviations (RAD B.14) for locations. Put any additions of your own in square brackets. For example:

London, Ont. *not* London, ON

2012- *date followed by hyphen for an open date*

School of Music [1965]

Using a soft pencil, write the file title on the folder tab or envelope. The title on the folder *must match the title on box list, including capitalization and punctuation.*

8. Put the folders back in the box in the original order and make a list of all the folders in the box. Add the box list to the accession record. See example of a partial box list below:

Accession box 3

Federation Surveys

London Associates Reports to Federation

Federation correspondence and reports 1991-2012 [1 /2]

Federation correspondence and reports 1991-2012 [2/2]

Dialogue correspondence 2011

Agrégée Membership 2006-2011

Associate leadership correspondence 2016-2017

Leadership process correspondence 2014-2015

Animator Team endorsement 2000-2010

Animator endorsement 2011

Animators' ballots and correspondence 2011

Arrange the records

The next step is to arrange the records and make a finding aid.

9. Determine the level of arrangement. You can arrange just at the fonds level for small accessions, and not arrange into series and subseries. However, if the accession is large, or lacks original order, you can do more in-depth arrangement to the series and file levels.

10. Make a series and files list. To identify the series in a fond or sous-fonds, look for separate activities carried out during business or daily life. A series is made up of records that were created, received, or used in the same activity. Try to see what series or subseries were originally there, in other words if the materials were already arranged into some order. Only physically re-arrange materials, if necessary, for example to restore chronological order of meeting minutes. Do not spend time on arranging the items within a folder. Make sure you make notes about whether you were able to keep the original order of the materials or had to impose an order. You will need this information for the archival description.

Series may reflect aspects of a creator's life, or a similar source or common activity, or similar content. Here are some common types of series and subseries:

- a) *Activity or function*: minutes, land deeds, correspondence
- b) *Physical qualities*: photographs, maps, bound volumes
- c) *Creator*: family member, an office in an organization, a corporate branch
- d) *Time frame*: retirement years of an individual, term of public office
- e) *Place*: a member unit within a larger region
- f) *Artificial or assembled*: photographs, audiovisual material, printed material, digital media

Artifacts can be put in a separate series. Subseries are units within a series which contain files. You will always have two subseries if you have any, otherwise you just have a series. Files are units within a series and may be organized chronologically, numerically, alphabetically, or by topic. Items are individual records within a file, such as a letter or map. See Appendix I for types of common series.³

Do not include dates in the fonds title. The fonds title should be the name of the creator of the fonds. It is important that the *official* name is used. For example, Rimbey Hospital is the common name, but St. Paul's Hospital is the official name.

The series titles should reflect the function/activities that created each series. *Do not repeat information given in the fonds title in the series title or information given in the series title in the subseries title.*

If there is no original order, you need to impose an order. In this case, choose to place files in ascending order in the series, e.g., Yellowknife annals 2012 would precede Yellowknife annals 2013 on a file list.

³ This discussion benefitted from the Society of American Archivists Arrangement and Description workshop, 2021.

Remember a file is an intellectual construct that can consist of more than one folder or enclosure. And remember that an item does not have to have a corresponding file, but it may have.

11. Physically arrange the materials into series and files and number the series and files.

Revise the box list to create a series and file list (known as a finding aid). See example of the first draft of arranged series and file list below:

F01 SF17 Associates Program DRAFT ARRANGEMENT

Accession box 3

Federation

Federation Surveys

London Associates Reports to Federation

Federation correspondence and reports 1991-2012 [1 /2]

Federation correspondence and reports 1991-2012 [2/2]

Leadership

Dialogue correspondence 2011

Aggrégée Membership 2006-2011

Associate leadership correspondence 2016-2017

Leadership process correspondence 2014-2015

Animator Team endorsement 2000-2010

Animator endorsement 2011

Animators' ballots and correspondence 2011

Check over the series and file list. This is an important step before labelling, to make sure your numbering is correct. Also, this is your chance to make sure the fonds title, series titles and file titles do not duplicate each other, and that date ranges are correct. *The titles on the file list must exactly match the titles on the physical files.*

Make the labels. Put the complete fonds, sous-fonds, series, subseries and file number. (See the section on numbering and abbreviations below.) Underneath the fonds-sous-fonds-series-subseries-file number, put the fonds, sous-fonds, series, and sub-series title. The file title should already be printed in pencil on the folder, so you don't add it to the label. Abbreviate the fonds title for *Congregation of the Sisters of St. Joseph in Canada-London* as *CSJ London* and for the *Congregation of the Sisters of St. Joseph in Canada* as *CSJ Canada*. Here are some examples:

F01-	SF10-	S004-	01-	01
CSJ London-Sr. Margaret Ferris-Education-Diplomas and Certificates				
↑	↑	↑	↑	↓
Fonds number	Sous-fonds number	Series number	Sub-series number	File number
(The file title "University of Western Ontario B.A." is already on the folder.)				

Apply the label with the number on the right front corner of the folder.



Write complete number and everything except file title:

F06-S005-01

St. Joseph's Hospital, Chatham, Ont.-Minutes
(File title already on folder is "House meetings 1936-June 6/52")

Here is an example of a final series and file list:

F01-SF17 Associates Program FINAL ARRANGEMENT

Box 3

F01-SF17-S010	Federation
F01-SF17-S010-01	Federation Surveys
F01-SF17-S010-02	London Associates Reports to Federation
F01-SF17-S010-03	Federation correspondence and reports 1991-2012 [1 /2]
F01-SF17-S010-03	Federation correspondence and reports 1991-2012 [2/2]
F01-SF17-S010-04	Federation meetings May 2016, May 2017 [2020-4]
F01-SF17-S011	Leadership
F01-SF17-S011-01	Dialogue correspondence 2011
F01-SF17-S011-02	Agrégée Membership 2006-2011
F01-SF17-S011-03	Associate leadership correspondence 2016-2017
F01-SF17-S011-04	Leadership process correspondence 2014-2015
F01-SF17-S011-05	Animator Team endorsement 2000-2010
F01-SF17-S011-06	Animator endorsement 2011
F01-SF17-S011-07	Animators' ballots and correspondence 2011

Numbering and abbreviations

Use these conventions for numbering and abbreviations.

ACCESSION NUMBER

FONDS NUMBER

(Use M prefix for main archive, H prefix for Hamilton archive, and no prefix for London archive)

F01	or	MF01	Fonds
F01-SF01	or	MF01-SF01	Sous-fonds
F01-S001	or	MF01-S001	Series
F01-S001-01			Sub-series
F01-S001-01-01-001			Sub-series and File and Item

LOCATION CODES

A-1	Shelf unit A, shelf 1
VF 4-2	Vertical file cabinet 4, drawer 2
HF 1-1	Horizontal file cabinet 1, drawer 1
Map 1-3	Map cabinet 1, drawer 3
Cab 1-2	Cabinet 1, shelf 2
Wood 1	Wooden cabinet 1
Book	Bookshelf (archive office)
Offsite storage	Offsite storage

Separating items

You may need to remove some items which are fragile or oversized and store them separately. In this case, separation sheets are used to link the item with its original location in the series. Make a folder for the separation sheet and give the folder a label with the number and title, just as if the item was still in the folder. Put a separation sheet with the item, and a separation sheet in the folder.

SEPARATION SHEET

Items: F15-S001-04-001

St. Joseph's School of Nursing, Chatham graduation class – 1916 [photo]

Original location: F15-S001-04

Current location of items: Map 1-2

Reason for removal: Oversize and fragile

Special media

When numbering photographs, write the number lightly on the back (verso) right hand corner using a Stabilo pencil. Slides are labelled on the lower right corner of the cardboard or plastic frame. If you have arranged the records, on the enclosure, indicate the fonds, series, file and item number(s) and the number of photographs, slides, or negatives in the enclosure.

If you have arranged the records, and there are photographs in a file, create a photograph information sheet that gives the fonds and series title, the fonds, series and file number, and the extent of the photographs. Place this sheet in the folder with the photographs. This will be very helpful when you describe the records.

Photographs	
Fonds and series title	Jamaica Annals-Correspondence
Number	HF01-S002-02-07
Extent	2 photos: b&w
	1 photo: col.

Label artifacts using an acid free tag, or acryloid and a pigma pen. Label textiles with a tag made of twill tape and sew the short edges of the tag onto the textile.

For framed and matted works, label with a pencil on the back (verso) right hand corner. It is generally preferable to remove items from frames and store flat.

Label scrapbooks and albums on the inside of the front cover or the first page with a pencil, or with a tag. Never take photo albums or scrapbooks apart. If necessary, interleave them with acid free tissue and tie with cotton twill tape, or make a phase box to store the item inside.

Storage

The last step is to put the materials in storage.

12. Place folders in an acid and lignin free box and label the box with the fonds/sous fonds number and fonds/sous fonds title. Make sure to number the box since there may be several boxes with the same name. Use a spacer if the box is not full. Do not pack the box too tightly.
13. Label and number the box and record its location in the accession record. Use standard abbreviations for storage locations. See example below:

F01-S010	General Superior Office 1995- 2012 Box 2	B-1
F01-S010	General Superior Office 1995- 2012 Box 3	B-1
HF01-S002	Jamaica Annals Box 1	Offsite storage

Section 6: Naming guidelines

Subject headings

To find subject headings, go to Library of Congress Authorities (<http://authorities.loc.gov/>).

Click on the link Search Authorities. Choose *Search Type* “Subject Authority Headings.” Enter text in the *Search Text* box. Click on the tab *Begin Search*. When you get your results, choose only the *Authorized Headings* tabs. For more information, see Appendix II.

Name authorities

Use only authorized or official names. Check the Library of Congress Name Authorities at <https://authorities.loc.gov/> and select *Search Authorities*. In the “search text” field, enter the name with the surname first, and select *Name Authority Headings* from the drop-down menu. Click on *Authorized Heading* next to the appropriate search result and click on the link to view the full record. The authorized name is given in the 100 field. You can also consult the Virtual International Authority File at <http://viaf.org/> for authorized names.

Be sure to give dates of existence with proper names, surname first, for example: Kirwin, Mary Leo, 1922-2015.

Approved local abbreviations

CSJ – for The Congregation of the Sisters of St. Joseph in Canada, e.g., CSJ London, CSJ Canada

Sr. for Sister, Fr. for Father, St. for Saint

Date and time formats

Use ISO standard 8601 for date when possible. Use zeros in one-digit numbers, e.g., 01, 02...

YYYY/MM/DD	2013/09/01	= Year/Month/Day
01:05:26		= 1 hour, 5 minutes, 26 seconds

Local controlled vocabulary for physical description

Controlled term	USE FOR	Common term
audio disc		compact disc, compact disk, CD, vinyl record
optical disc		optical disk
CD-ROM		CD-R
digital video disc		DVD, digital video disk, digital versatile disk
videocassette		VHS tape
audio cassette		cassette tape, audiocassette
audio reel		reel to reel tape
zip disk		USB drive, thumb drive
computer disk		computer disk
architectural drawing		blueprint
cartographic material		map
graphic material		artwork
moving image		movie, film
object		artifact
philatelic record		stamp
sound recording		tape recording
technical drawing		
textual record		manuscript, document
photograph		photo, print, color transparency, slide, negative, carte de visite

Local controlled vocabulary for subject access points

Controlled term	LCSH	Common term
Sisters of St. Joseph	Sisters of Saint Joseph	
Church work	Church work	Ministry
Healthcare	Medical care	Hospital, Clinic, Nursing
Music	Music	Band, Orchestra, Choir
Education	Education	Teaching, Schools
Spirituality	Spirituality	
Religion	Religion	
Orphanages	Orphanages	Orphanage, Foster Care, Children
Women	Women	
Poverty	Poverty	Soup Kitchen, Homelessness, Shelter
Catholic Church -- Missions	Catholic Church -- Missions	Missions, Convents
Sister		Nun, Woman religious
Leadership	Leadership, Christian leadership	General Council, Congregational Leadership Circle
Chapter		General Meeting
History	History	
Oral history	Oral history	Storytelling
Annals and chronicles	Annals and chronicles	Annals, Diary, Journal, Accounts, History
Canada	Canada	
Ontario	Ontario	
London (Ont.)	London (Ont.)	London Ontario
Corporate governance	Corporate governance	Policy
Gifts	Gifts	Donations
Archives	Archives	

Library outreach programs	Library outreach programs	
Exhibit	Exhibit, Display boards, Display of collectibles	Display
Publications	Publications	Publication
Reference services (Libraries)	Reference services (Libraries)	Reference inquiry
Finding aids	Finding aids	Finding aid
Research	Research	
Training	Training	
Handbooks and manuals	Handbooks and manuals	Manual
Guatemala	Guatemala	Guatemala
Peru	Peru	
Chincha (Peru)	Chincha (Peru)	Chincha Alta Peru
Chincha (Peru: Province)	Chincha (Peru: Province)	Chincha Baja Peru
Chiclayo (Lambayeque, Peru)	Chiclayo (Lambayeque, Peru)	Chiclayo Peru

Note: when entering tags on Flickr, put multiple word tags such as “Sisters of St. Joseph” in quotes to keep as a single tag. Be sure to add controlled vocabulary in the keyword fields to archive items uploaded to the consolidated archives website.

Electronic file naming

Drives, folders, and files should be named without using periods or special characters or spaces.

File You can use a hyphen or underscore instead of a space. Directory names should not be longer than 21 characters, not including the file extension. The total path length should be less than 207 characters. For example:

CSJ-Archives > Photos > London-historical-sites > f01-s001-01-01-001-pm.tif

= 67 characters

The directory hierarchy should be less than 8 levels. For example:

CSJ-Archives > 400-Communication > 440-Reporting > 440-10-Annual-reports > 2014

= (5 levels)

When naming files, give a short name. For example:

transcript-2016-19.docx

f01-s001-02-010-pm.tif

ch25-a-sm.wav

Number different versions of the same file. For example:

filename.ext Original file

filename-rev1.ext Revised file with first set of revisions

filename-rev2.ext Revised file with second set of revisions

The filename for digital images and digital audio will include the identifier. The identifier is a unique name that is encoded in the Dublin Core metadata field *Identifier*. It persists throughout all versions. For example, *f01-s001-02-010*.

When saving different formats of the same file, give each file the same name. Differentiate between the versions using affixes. Give the preservation master the suffix *-pm*, the service master the suffix *-sm*, and the access copy the suffix *-ac*. For example:

f01-s003-02-005	identifier
f01-s003-02-005-pm.tif	arranged preservation master
f01-s003-02-005-sm.tif	non-arranged service master (edited)
f01-s003-02-005-ac.jpeg	non-arranged access copy (edited and compressed)
lo-001-001	identifier
lo-001-001-pm.tif	non-arranged preservation master
lo-001-001-sm.tif	non-arranged service master
lo-001-001-ac.jpg	non-arranged access copy
m26-a	identifier
m26-a-pm.wav	audio preservation master side A
m26-b-pm.wav	audio preservation master side B
m26-a-sm.wav	audio service master side A
m26-b-sm.wav	audio service master side B
m26-a-ac.mp3	audio access copy side A
m26-b-ac.mp3	audio access copy side B

Section 7: Description

An archival description is a finding aid to help researchers which gives information about the context and content and organization of a record group. The description goes from the general to the specific. After arranging the records, when there is time, you can create archival descriptions for the fonds/sous-fonds or series.

We initially do minimal description for our record groups, creating only descriptions for the highest level, whether that is a fonds, sous-fonds, or series. Keep the administrative history or biographical sketch brief.

We enter only descriptions which are suitable for public access into Archeion. (These include descriptions of fonds which do not have privacy or other access restrictions, and which would be made available to public researchers.)

We describe only the highest level, whether that is the fonds, sous-fonds, or series/subseries levels. Later, if time permits, we return to the description and add the next lower level, which is generally the series or subseries level. We do not describe at the file or item levels.

When doing an archival description, it's best to quickly look through the records, to get an overview. Don't spend too much time on this. Then, start with the physical description for each series (or subseries if your highest level is the series.) Note the beginning and end dates for all the records in each series. Discuss *what kind* of records, and *what they are about*, in a scope and content note. Only after this is done, fill in the physical description, inclusive dates and scope and content fields for the fonds or sous-fonds level. Finally, do a brief administrative history or biographical sketch, and fill in any remaining fields. Be careful not to get bogged down in detail!

A note on punctuation: in the physical description area, start a new paragraph for each media type. *Use a space before and after colons and semicolons. Use a colon before physical details, and a semicolon before dimensions.* Use controlled vocabulary in the physical description area (see Section 5 on controlled vocabulary for physical description.)

RAD higher-level description

Here are the *required* fields for the highest level of description:

Title proper (RAD 1.1B) *The title is very important!* It is usually based on the *official* name of the creator followed by the word denoting the type of record group (fonds or sous-fonds or series). Give the authorized form of name for corporate bodies. If the corporation was known by several names, give the official name here, not the name it was commonly known by. RAD allows the dates of existence of the creator in the title.

Class of materials specific details (RAD 5.3 for maps, RAD 6.3 for architectural or technical drawings)

Level of description (RAD 1.0A) Enter “fonds,” “collection,” or “sous-fonds” or “series” depending on what the highest level of the record group is.

Identifier Enter fonds and sous-fonds number, and series number only if the series is the highest level.

Date (RAD 1.4A, 1.4B) In RAD, you record two dates: the dates of existence of the records creator, and the dates of the records in the record group. This latter date should encompass *all* the records included in the record group. RAD states “The date(s) of creation of a unit being described must fall within the range of dates of creation of the unit of which it forms a part.” For example: If 1934-1985 are the dates of creation for a fonds, the dates of creation of a series within this fonds must fall within this span. *Make sure to note two date spans in your archival description – one date span is the beginning and end of the lifespan of the person or institution, and the other is the date span of the records.*

Physical description (RAD 1.5A, 1.5B, 1.5C, 1.5D) This includes extent. Always measure height x width in centimeters. According to RAD: “Precede each physical description by a full stop, space, dash, space or start a new paragraph. Precede other physical details (i.e., other than extent or dimensions) by a colon. Separate each part of the description of other physical details by a comma, conjunction, or preposition. Precede dimensions by a semicolon.” For example:

1 photograph : b&w ; 6 x 6 cm + 1 identification key

5 technical drawings : blueprint ; 25 x 42 cm

3 photographs : col.

1 collage ; 20 cm x 20 cm

Administrative history/Biographical sketch (RAD 1.7B) For corporate bodies, include dates of founding and dissolution; mandate; administrative relationships with other bodies; administrative structure; names of chief officers. For individuals, give place and dates of birth and death; places of residence; occupation, education, and activities; names of family members.

Custodial history (RAD 1.7C) Instead of this field, you will generally use “Notes-immediate source of acquisition” if material was transferred or donated directly to the archive.

Scope and content (RAD 1.7D) Give information about the functions and activities that produced the records, the time period, subject, and geographical area. Also give information about the arrangement of the record group and its main format, e.g., minutes, correspondence, etc.

Notes – immediate source of acquisition (RAD 1.8B12) See custodial history.

Notes- restrictions on access (RAD 1.8B16a) Note any access restrictions. If none, write “Open.” If there are restrictions, write “Closed” and give the period for which the records are restricted. For example, *Closed for 50 years after death of Sister (until 2039)*.

Notes – finding aids (RAD 1.8B17) Note that there is a series list.

Notes-associated/related material (RAD 1.8B18)

Access points (RAD 21) Use the subject headings and corporate names indicated in the Controlled vocabulary section, as well as Library of Congress subject headings. Do not repeat subject headings from a higher level of description at a lower level.

RAD lower-level description

If you describe below the highest level, the *required* fields for lower levels are like those given at higher levels. You must include the title proper, level of description, identifier, date, physical description, scope and content note, and access points.

You do not provide the class of materials, administrative history or biographical sketch, custodial history, or notes at this level. You do not repeat any access points given at the higher level of description.

Special differences at the lower level of description to note:

Identifier (Series number) Use fonds, sous-fonds, series, and subseries number as built.

Date (RAD 1.4A, 1.4B) *The date is very important!* These dates should fall within the range of the dates given for the fonds, and encompass all the records included in the series or subseries.

Note: When cataloguing publications such as books, this would be applicable at the item level. For a series of books, there would probably be no file level at all, just a series of items. All the information that would show up in a basic library description will also be put in RAD. The publication date and place and the publisher's name are put in the date area in RAD. Any information about publisher's series is a separate area in RAD, as is the area for the ISBN or ISSN (standard number). These two areas of RAD description are only used for published materials, and only when they are provided. Many older books in archives pre-date the creation of ISBN or are local productions which never applied for a number.⁴

Finding aids - example of a series list

This is an example of a partial series and file list for a sous-fonds:

F01-SF17 Associates Program	
<u>Box 3</u>	
F01-SF17-S010	Federation
F01-SF17-S010-01	Federation Surveys
F01-SF17-S010-02	London Associates Reports to Federation
F01-SF17-S010-03	Federation correspondence and reports 1991-2012 [1 /2]
F01-SF17-S010-03	Federation correspondence and reports 1991-2012 [2/2]
F01-SF17-S010-04	Federation meetings May 2016, May 2017 [2020-4]
F01-SF17-S011	Leadership
F01-SF17-S011-01	Dialogue correspondence 2011
F01-SF17-S011-02	Agrégée Membership 2006-2011
F01-SF17-S011-03	Associate leadership correspondence 2016-2017
F01-SF17-S011-04	Leadership process correspondence 2014-2015
F01-SF17-S011-05	Animator Team endorsement 2000-2010
F01-SF17-S011-06	Animator endorsement 2011
F01-SF17-S011-07	Animators ballots and correspondence 2011

⁴ L. Riedstra, pers. comm., 2014.

Finding aids -example of an archival description

This is an example of an archival description for the same sous-fonds:

F01-SF17 Associates Program

Title proper: Associates Program

Level of description: Sous-fonds

Identifier: F01-SF17

Date(s) of creation: 1987-2018

Physical description:

101 cm of textual documents

5 photographs: col; 16 x 11 cm (6 x 4 inches)

Administrative history:

An Associate is a layperson who has made a commitment to the mission of a religious community. In a study undertaken in 2016 by the Center for Applied Research in the Apostolate, two-thirds of religious institutes reported having an Associates program. In that year, there were 56,000 Associates in the USA and Canada, and 90% of them were women, with 71% of Associates being over 60 years of age. Like vowed religious, laypeople who become Associates speak of being called to their role and having an inner spirituality that the programs allow to flourish. The charism of the Congregation of the Sisters of St. Joseph in Canada does not belong to any one congregation, but to the world. Both Associates and women religious are called to the same mission and charism yet Associates and women religious are distinctly different. Where Sisters hold religious vocations with life in common to the mission and the charism through perpetual vows, Associates hold individual vocations with life to the mission and the charism and yearn for a deeper spiritual commitment, but individuals may be unable or unwilling to take perpetual vows. Associate requirements vary by community. Over time, there has been a shift in the leadership of Associate programs from vowed religious to lay directors. Some Associates have taken over ministries formerly run by the religious community.

On July 9th, 1987, the Congregation of St. Joseph approved the movement towards having an Associates Program complete with a candidate process and formal training process. The program began on April 4th, 1989, in London, Ontario, Canada. The Associates Program was originally founded by Sister Doreen Kraemer and later administered by Sister Janet Zadorsky. As of April 2017, administration of the program was taken over by two Lay Mentors, Mary Shamley and Ann Baker.

Scope and content:

This sous-fonds contains directories, newspaper clippings, financial records, correspondence, presentation talking points, photographs, photo albums, promotional materials, a survey, handbooks, crafts, history timelines, meeting minutes, and reports. These records relate to the administration and operation of the Associates Program.

The sous-fonds contain the following series:

F01-SF17-S001	Directories and Lists
F01-SF17-S002	Newsletters
F01-SF17-S003	Finance
F01-SF17-S004	Communications
F01-SF17-S005	Events
F01-SF17-S006	History
F01-SF17-S007	Administration
F01-SF17-S008	Peru Program
F01-SF17-S009	Meetings
F01-SF17-S010	Federation
F01-SF17-S011	Leadership
F01-SF17-S012	Candidate Process

Notes:

Immediate source of acquisition: The records in this sous-fonds were transferred from the Associates office to the Congregation of the Sisters of St. Joseph in Canada archives in summer of 2019.

Restrictions on access: This sous-fonds is partially restricted to access by the public.

Finding aids: Series and file list available.

References:

Dan Stockman, ‘Growing Number of Associates Partner with Religious Communities to Quench Spiritual Thirst,’ <https://www.globalsistersreport.org/news/trends/growing-number-associates-partner-religious-communities-quench-spiritual-thirst-41071>, accessed 2020/11/3.

OLVM Sisters, ‘Carol Zinn - Associates,’ https://www.youtube.com/watch?v=j_Jb9kWxVBE, accessed 2021/3/20.

Section 8: How to use AtoM

Archeion is an AtoM database with a web front end. Everything is connected in Archeion. There is a record for the repository which is connected to authority records for creators which are connected to fonds-level descriptions which are connected to series-level descriptions and so forth. Look at the Archeion entry for “Stettler Hospital” which has an authority record, a fonds record, and two series records.

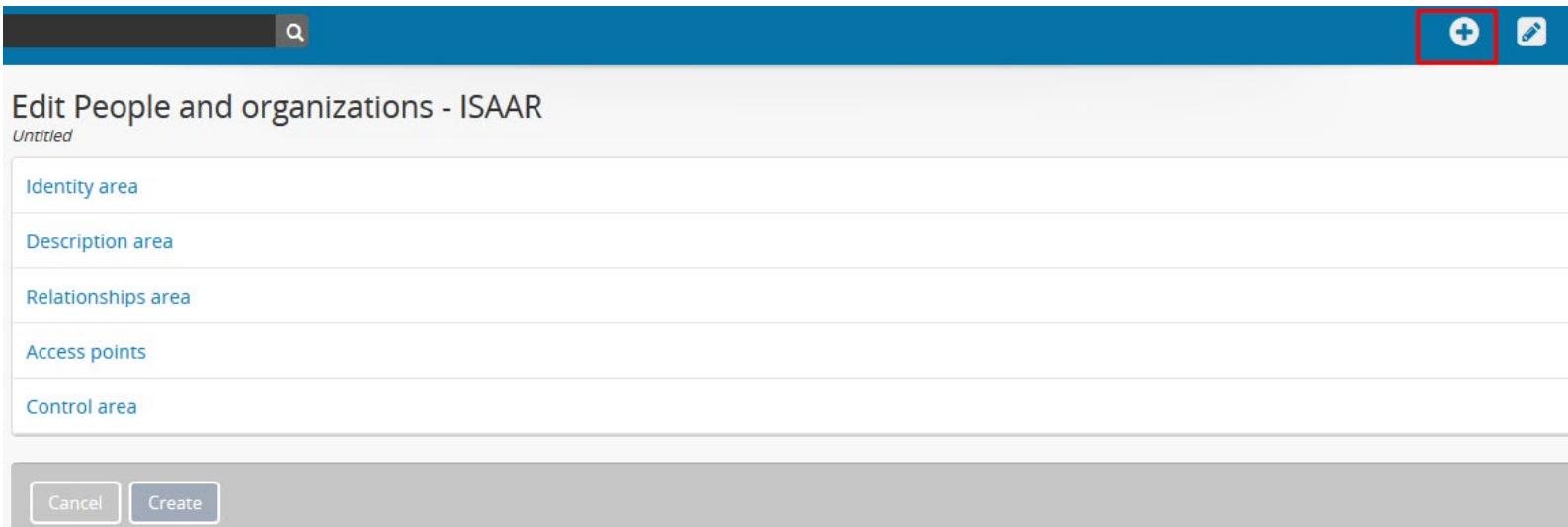
Clear the cache before you use Archeion. Make sure to frequently click “Save” as you are entering data into Archeion.

Step one – create an authority record

First, you must create an authority record if there is not already one. The authority record contains the information about the person or organization that created the records. It links the person or organization to other related people or organizations. For example, the authority record for St. Joseph's Hospital, Chatham, Ont. links the hospital to the Congregation of the Sisters of St. Joseph in Canada and to St. Joseph's Hospital School of Nursing, Chatham, Ont. See below:

The screenshot shows a web-based form for creating an authority record. At the top right is a red-bordered blue button with a white plus sign. The title 'St. Joseph's Hospital, Chatham, Ont.' is displayed. A note in a red-bordered box says 'Authority record identifier - This is a mandatory element.' Below the title, the breadcrumb navigation shows 'People and organizations > St. Joseph's Hospital, Chatham, Ont.'. The main content area is divided into sections: 'Identity area', 'Description area', 'Relationships area', and 'Control area'. The 'Identity area' section includes fields for 'Type of entity' (Corporate body) and 'Authorized form of name' (St. Joseph's Hospital, Chatham, Ont.). The 'Description area' section includes fields for 'Dates of existence' (1890-1993), 'History' (describing a meeting between Reverend Paul O.F.M and others in 1890), 'Places' (Chatham, Ontario; London, Ontario 1890-1993), and 'Functions, occupations and activities' (Health care). The 'Relationships area' section is highlighted with a red border and contains two entries. The first entry is for a 'Related entity' (Congregation of the Sisters of St. Joseph in Canada -- London (1868-)) with details: Identifier CA-ON, Category hierarchical, Type of relationship associative, and a note that it is the owner of St. Joseph's Hospital, Chatham, Ont. The second entry is for another 'Related entity' (St. Joseph's Hospital School of Nursing, Chatham, Ont. (1901-1970)) with details: Category associative, Type of relationship associative, and a note that it is the associate of St. Joseph's Hospital, Chatham, Ont. The 'Control area' section includes fields for 'Status' (Final), 'Level of detail' (Partial), and 'Dates of creation, revision and update' (June 25, 2014). On the right side, there are buttons for 'Clipboard', 'Add' (with a red border), 'Export', and 'EAC'.

Go to the **Add** icon  at the top right of the web page and choose **Authority record**. You will see many links, each of which if clicked on, open the area to show its fields.



The screenshot shows a software interface for managing people and organizations. At the top, there's a blue header bar with a magnifying glass icon for search and a red-bordered 'Add' icon. Below the header, the title 'Edit People and organizations - ISAAR' is displayed, followed by a subtitle 'Untitled'. On the left side, there's a vertical sidebar with several sections: 'Identity area' (which is highlighted in blue), 'Description area', 'Relationships area', 'Access points', and 'Control area'. At the bottom of the screen, there are two buttons: 'Cancel' and 'Create'.

First, click on the **Identity** area. This is shown below. Enter data in the Type of entity field. You will generally choose corporate body. This is a required field.

Click on the Authorized form of name field. Enter the official name but do not enter any dates. For Sisters, choose the name they were known by at death, either their religious name, or their birth name. This is a required field. If there is another form of name, for example for a Sister, you can separately enter her birth name and her name with “Sister” preceding in the Other form(s) of name fields. If you are entering a name for a person, enter the surname then first name, followed by the birth and death dates, e.g., Gagner, Eveline, 1917-2020.

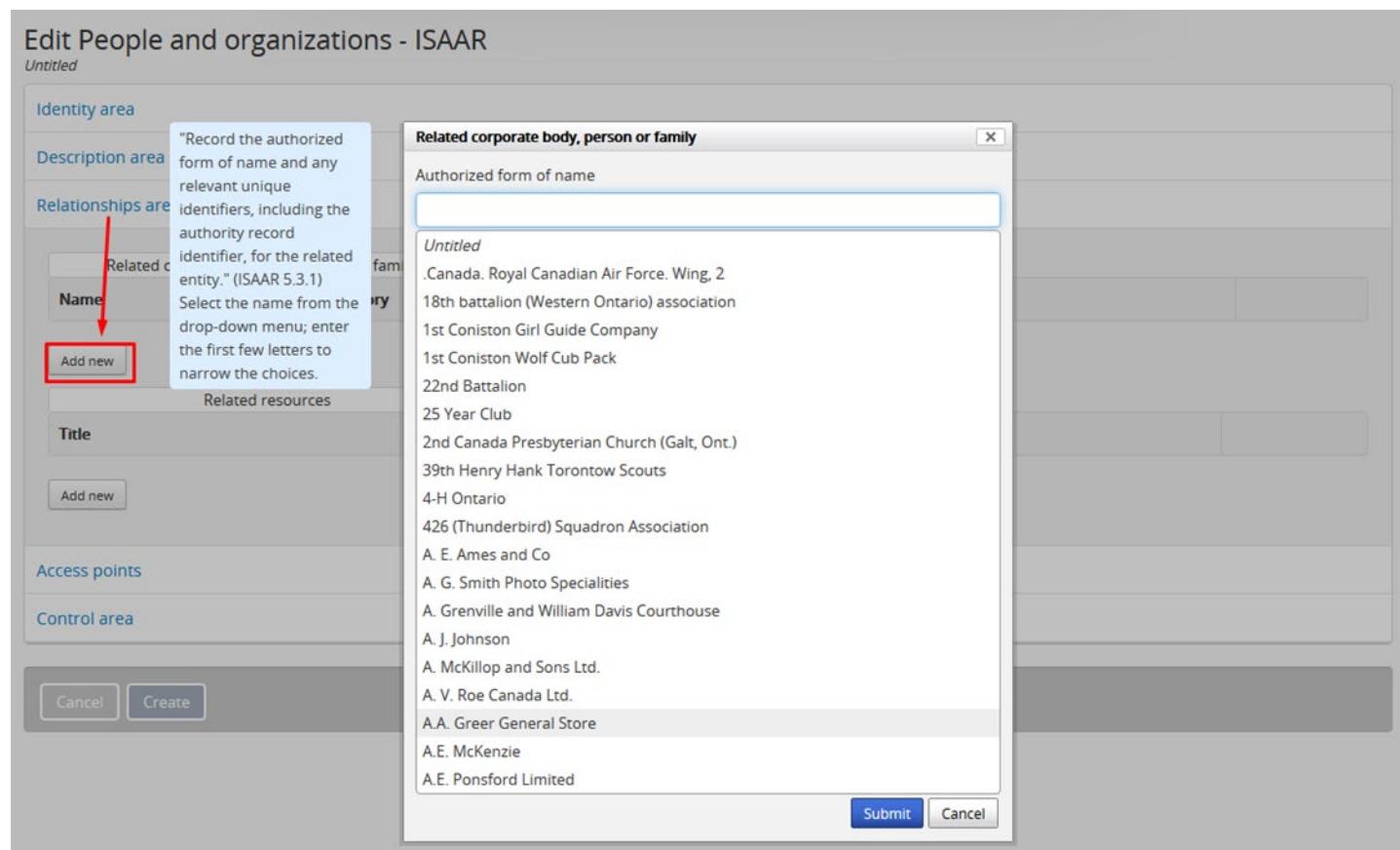
Next, click on the **Description** area. Enter the dates in the Dates of existence field. This is a required field. These dates are the lifespan of the individual or organization only, not the dates of the records in the fonds.

The History field is where you enter the administrative history. You enter the administrative history/biographical sketch in the Authority record. The administrative history fields in the description will automatically be filled in from this field in the Authority record. Other fields in the **Description** area that you can fill in are Places and Functions, occupations, and activities.

Go down to the bottom and press **Create**.

Note: If you are trying to link to another corporate body through a relationship, create the other one before you do so.

Click on the **Relationships** area. Click the Add new button under Related corporate bodies, persons, or families. This will bring up a small screen.



Under the Authorized form of name field, you can enter any of the following: “Congregation of the Sisters of St. Joseph in Canada – London” or substitute another place for London, e.g., Hamilton, Pembroke, Peterborough. There will already be a subject authority record in Archeion for these headings, so just accept the heading when it appears in the field. *If you keep typing and hit enter, you will create another subject authority record, which you don't want to do.*

The Category of relationship field will generally be “Hierarchical” for a corporate body and “Family” for an individual, but for Sisters it is “Hierarchical” as well.

In the Description of relationship field, enter some information about the relationship, e.g., ownership, administration, etc. For example, “The Sisters administered St. Joseph’s Hospital in Sarnia,” or “Sister Eveline Gagner was a member of the congregation.”

In the Date field, enter the *dates of existence of the individual or organization*. You put dates pertaining to the actual records later in the description. This will automatically fill in the Start and End fields. Then click . Ignore the Related resources field that follows.

Once this is created, if you want to link to another authority record through a relationship, you need to first create the other one, so both are created. Then you can go into one of the authority records and try the relationship and it should show.

Sometimes the span of dates of existence of the individual or organization does not match up with the date span of the records. For example, the St. Joseph School of Music was in existence from 1954-2005. However, this sous-fonds had some records from the former Sacred Heart School of Music, which was its precursor, dating back to 1914. It also had only records dating to 1988 from the successor. This meant that the dates of existence for St. Joseph’s School of Music were 1954-2005, but the dates of creation (of the records) were 1914-1988. In this case, enter the dates of existence for the organization as 1954-2005 in the authority record, and later, in the fonds level description, enter the dates of creation for the records as 1914-1988.

Click on the **Control** area. Do not worry about entering anything in the Description identifier field in the authority record. (It will give you an error message later, but disregard this.) In the Maintaining Repository field, enter “Congregation of the Sisters of St. Joseph in Canada.”

Select “Final” from the dropdown menu in the Status field. Select “Partial” from the dropdown menu in the Level of detail field. Select “English” from the dropdown menu in the Language field.

Do make sure that if there are any dates in the title (referring to the dates of existence of the entity), these are entered in the Dates of existence field in the **Description** area and *not* in the Authorized form of name field of the authority record.

Do not give bibliographical references in the authority record. Give these in the description record.

Click **Create** or **Save** at the bottom when you are done.

Step two – create an archival description for the highest level of the record group

Once you have created the authority record, you can create the archival description for the highest level of the record group. This may be a fonds, or a sous-fonds, or a series. Click on the **Add** tab **+** as you did to create an authority record and choose the **Archival description** link.

You will see many links to choose from, each of which contain many fields.

The screenshot shows a digital form interface with a blue header bar. In the top right corner of the header, there is a red rectangular box highlighting a white button with a plus sign (+). To its right is another button with a pencil icon. The main area is titled "Untitled". Below the title is a vertical list of categories, each with a horizontal line below it:

- Title and statement of responsibility area
- Edition area
- Class of material specific details area
- Dates of creation area
- Physical description area
- Publisher's series area
- Archival description area
- Notes area
- Standard number area
- Access points
- Control area
- Administration area

At the bottom of the form is a grey footer bar containing two buttons: "Cancel" and "Create".

Each link is an area that, when clicked, displays fields. Enter data in the fields as indicated below. Do *not* put the date in the Title proper field. You can ignore all Institution identifier fields. The institution identifier is already populated from the record for the repository.

Untitled

Title and statement of responsibility area	
<p>Enter the title proper, either transcribed or supplied. (RAD 1.1B)</p>	
<p>Title proper *</p> <input type="text"/>	
<p>General material designation</p> <input type="text"/>	
<p>Parallel titles</p> <input type="text"/>	
<p>Other title information</p> <input type="text"/>	
<p>Statement of responsibility</p> <input type="text"/>	
<p>Title notes</p> <input type="text"/>	<p>Note type</p> <p>Attributions and conjectures</p> <p>x</p>
<p>Add new</p>	
<p>Level of description *</p> <input type="text"/>	

Title and statement of responsibility area

Title proper – Enter the name of the creator followed by the word referring to the record group, for example “fonds,” e.g., “Stettler Hospital fonds.” Use lower case for the word referring to the record group, e.g., “fonds.”

General material designation – Enter the type of material, e.g., “Multiple media” if the record group contains textual records and photographs. Scrapbooks are “Multiple media,” but photo albums are “Graphic material.”

Title notes – Enter “Title is based on the contents of the ___” and fill in the type of record group which is the highest level, either fonds, sous-fonds, or series.

Note type – Choose “Source of title proper” from the dropdown menu.

Level of description – Choose the type of record group from the dropdown menu.

Repository – Start typing “Congregation of the Sisters of St. Joseph in Canada” and when it shows up, select it. *Don't keep typing once it shows up.*

Identifier – Enter the record group number only, e.g., “F02” or “F12”, etc. The database will automatically add our repository Archeion code which is CA ON00279.

The screenshot shows a form for cataloging a collection. On the left, a note says: "Identifier: Enter an unambiguous code used to uniquely identify the description. Level: Select a level of description from the drop-down menu. See RAD 1.0A for rules and conventions on selecting levels of description. Title: Enter the title proper, either transcribed or supplied. (RAD 1.1B)".

Title proper *
St. Joseph's Hospital, Chatham, Ont. fonds

General material designation
Multiple media

Parallel titles

Other title information

Statement of responsibility

Title notes
Title is based on the contents of the fonds.

Note type
Source of title proper

Level of description *
Fonds

Identifier
F06

Level

Title

Date

Repository

Identifier

Dates of creation area

This is the area that links the authority record with the archival description record. Once it is completed, the administrative history and the name access point for the creator of the records will be filled in automatically from the authority record.

Click **Add new** and a small screen will open showing fields.

Actor name – Start typing the name of the authority record (e.g., the creator of the records) and click on it when it appears in the list. *Don't keep typing once it shows up.*

Event type – Choose “Creation” from the dropdown menu.

Date – Enter the dates of creation *of the records*. This is a required field. Use RAD conventions, for example:

1890 [1867?] 1934-1955 [ca. 1875]-1954 1812-1903, predominant 1845-1867 [19-] [19-?]

If the dates are uncertain, e.g., ca. 1990-199?, you must enter the closest dates in the Start field and in the End field, e.g., 1990 and 1999.

Enter the start year. Do not use any qualifiers or typographical symbols to express uncertainty.
Acceptable date formats: YYYYMMDD, YYYY-MM-DD, YYYY-MM, YYYY.

Title and statement of responsibility area

Edition area

Event

Actor name
St. Joseph's Hospital, Chatham, Ont.

Event type
Creation

Place
Ontario

Date
1890-2009

Start
1890

End
2009

Event note
St

Submit Cancel

Date(s)

Administration area

Cancel Create

Physical description area

Enter the physical description in a list with each entry on a separate line, not separated by commas. Use metric measurements. Enter black and white photographs as: 10 photographs : b&w. Enter color photographs as: 10 photographs : col. Give dimensions as height x width. For example, 1 photograph : b&w ; 20 x 25 cm. Note the spacing between colon and semicolon. This is a required field.

"At all levels record the extent of the unit being described by giving the number of physical units in arabic numerals and the specific material designation as instructed in subrule .5B in the chapter(s) dealing with the broad class(es) of material to which the unit being described belongs." (RAD 1.5B1)
Include other physical details and dimensions as specified in RAD 1.5C and 1.5D. Separate multiple entries in this field with a carriage return (i.e. press the Enter key on your keyboard).

Physical description area
Physical description *
52.5 cm of textual records 177 photographs : b&w 122 photographs : col. 1 scrapbook (5 photographs : b&w ; 4 photographs : col.) ; 28 x 21.7 cm 1 scrapbook (22 photographs : b&w ; 24 photographs : col.) ; 28 x 21.7 cm
Publisher's series area
Archival description area
Notes area
Standard number area
Access points
Control area
Administration area

Archival description area

The Administrative history field will already have been populated from the authority record.

You will generally not use the Custodial history field. This is to record changes in ownership.

Use the Immediate source of acquisition field in the Notes area.

Scope and content – This field must be completed. This is a required field.

"At the fonds, series, and collection levels of description, and when necessary at the file and the item levels of description, indicate the level being described and give information about the scope and the internal structure of or arrangement of the records, and about their contents." (RAD 1.7D)
"For the scope of the unit being described, give information about the functions and/or kinds of activities generating the records, the period of time, the subject matter, and the geographical area to which they pertain. For the content of the unit being described, give information about its internal structure by indicating its arrangement, organization, and/or enumerating its next lowest level of description. Summarize the principal documentary forms (e.g., reports, minutes, correspondence, drawings, speeches)." (RAD 1.7D1)

Scope and content*

The fonds consists of essays, annals, a memoire, correspondence, memos, minutes, reports, financial papers, newspapers, newspaper clippings, photographs, drawings, floor plans, fact sheets, orientation booklets, bylaws, yearbooks, speeches, programmes, invitations, cards, newsletters, posters, flyers, press releases, membership roll, and certificates. Fonds consists of the following series:

Notes area

Standard number area

Access points

Control area

Administration area

Cancel **Create**

Notes area

You may make a note in the Physical condition field if necessary.

Below this field, you will find the Immediate source of acquisition field. This is used if records were received directly from the creator, which is the case for most of our records. For example, “The records were transferred from _____ to the Congregation of the Sisters of St. Joseph in Canada – London site archive.”

Language – Select the language *of the records themselves* from the dropdown menu. This is a required field.

Location of originals – Note which archive the records are located at. For example, “The records are located in offsite storage in London, Ontario.”

Restrictions on access – Enter this text: “The Archives reserves the right to restrict access to the collection depending on the condition of the archival material, the amount of material requested, and the purpose of the research. The use of certain materials may also be restricted for reasons of privacy or sensitivity, or under a donor agreement. Access restrictions will be applied equally to all researchers and reviewed periodically. No researcher will be given access to any materials that contain a personal information bank such as donor agreements or personnel records, or to other proprietary information such as appraisals, insurance valuations, or condition reports.” This is a required field.

Terms governing use, reproduction, and publication – Enter this text: “Permission to study archival records does not extend to publication or display rights. The researcher must request this permission in writing from the Archives.” This is a required field.

Finding aids – Enter “Series and file list available.” This is a required field.

Other Notes – This field can be used to enter other related items in the archive which have not been arranged as part of this record group. Choose “General note” from the dropdown menu.

Accruals – Enter “No further accruals are expected” unless more materials are expected to be added in the future.

Access points area

You do not repeat access points at lower levels, so what you enter at this higher level applies to lower levels.

You must choose Subject access points from a drop-down menu. If you enter Library of Congress Subject Headings they will get stripped out. For Place access points, choose the name of the province or “Canada” or “United States of America” or the name of the continent.

The Name access point for the creator of the records will automatically feed from the Authority record. Access points are required fields.

Control area

Status – Enter “Final.”

Level of Detail – Enter “Partial.”

Sources – Enter any references used to write the archival description. See the Guidance on references section below.

Administration area

Language of description – Choose “English.”

Display standard – Select “RAD.”

Click **Create** to finish the higher-level description.

The archival description will be automatically saved as a draft. To publish it, you need to go to the bottom of the description page and click the **More** button. Click on “Update Publication Status” in the drop-down menu, and you can then choose to publish or save your work as a draft. If you do not want to publish the description immediately, for example for privacy reasons, save it as a draft.

If your description has child levels, e.g., for subseries or files, you can publish these at the same time as the higher-level description. Check the “Update Descendants” box. If you do not do this, the lower-level descriptions remain in draft status.

You can always go back and edit the description using the **Edit** button at the bottom.

Step three – create archival descriptions for lower levels of a record group

It is important to remember that Archeion is based on AtoM which reflects the hierarchical structure of RAD in its design. *Do not repeat information at the lower-level descriptions which has already been supplied at the higher-level description.*

In your higher level description, go to the **Title and statement of responsibility** area. Under the Level of description field, you will see the Add new child levels field. Enter the data as follows:

Title and statement of responsibility area

Identifier – Enter the record group number, preceded by a hyphen, e.g., for a series, “-S001.”

Level – Enter the type of record group, either series, subseries, file, or items.

Title – Enter the title of the record group, either series, subseries, file, or items.

Date – Enter the inclusive dates of the records in the record group.

Click **Add new** to add more record groups.

Identifier: Enter an unambiguous code used to uniquely identify the description. Level: Select a level of description from the drop-down menu. See RAD 1.0A for rules and conventions on selecting levels of description. Title: Enter the title proper, either transcribed or supplied. (RAD 1.1B)

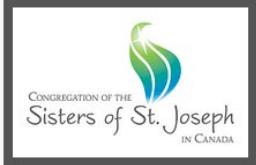
Title notes		Note type								
Title is based on the contents of the fonds.		Source of title proper								
Add new										
Level of description *										
Fonds										
Add new child levels										
<table border="1"> <thead> <tr> <th>Identifier</th> <th>Level</th> <th>Title</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>-S001</td> <td>Series</td> <td>Histories</td> <td>1930-1992</td> </tr> </tbody> </table>			Identifier	Level	Title	Date	-S001	Series	Histories	1930-1992
Identifier	Level	Title	Date							
-S001	Series	Histories	1930-1992							
Add new										
Repository										
Identifier										

[Generate identifier](#) [Add alternative identifier\(s\)](#)

Once you have created each record group, you can edit the records. This is when you can add in information about inclusive dates, physical description, and scope and content.

In the example shown below, you would click on the link for Series S001 shown below the link for the fonds on the left side of the screen to edit the record.

Fonds F06 - St. Joseph's Hospital, Chatham, Ont. fonds



Holdings Quick search

▼ Fonds F06 - St. Joseph's Hospital, Chath...

- ▼ Series -S001 - Histories
- Series -S002 - Correspondence
- Series -S003 - Administrative
- Series -S004 - Newspapers and clippi...
- Series -S005 - Minutes

2 more...

Histories



Title and statement of responsibility area

Title proper	St. Joseph's Hospital, Chatham, Ont. fonds
General material designation	• Multiple media
Title notes	• Source of title proper: Title based on the contents of the fonds.
Level of description	Fonds
Repository	Congregation of the Sisters of St. Joseph in Canada
Reference code	CA ON00279 F06

Dates of creation area

Date(s)	• 1890-2009 (Creation)
Creator	St. Joseph's Hospital, Chatham, Ont.

Physical description area

Then you proceed to add data to the fields found when you click on each area link, as shown below.

The screenshot shows the Archeion software interface for editing archival records. The title bar reads "Edit Histories - Archeion". The address bar shows the URL "www.archeion.ca/histories/edit". The main content area is titled "Series S001 - Histories". On the left, there's a sidebar with sections for "Upload limit" (showing 0.13 of 1 GB (13%) for Congregation of the Sisters of St. Joseph in Canada), "Reports" (with "Page views" selected), and "Holdings". The main panel lists several areas: "Title and statement of responsibility area" (highlighted in blue), "Edition area", "Class of material specific details area", "Dates of creation area", "Physical description area", "Publisher's series area", "Archival description area", "Notes area", "Standard number area", "Access points", "Control area", "Rights area", and "Administration area". At the bottom of the main panel are "Cancel" and "Save" buttons. The status bar at the bottom right shows the time as 10:20 AM and the date as 2/10/2015.

Make lower-level descriptions as you did for the higher-level description. Note which fields are *repeated* from the higher-level description and which are *not repeated*.

Title and statement of responsibility area

Title proper – Enter the title of the record group.

General material designation – Choose from dropdown menu.

Title notes – Enter “Title is based on the contents of the ___ (series, subseries, file).”

Note type – Choose “Source of title proper” from the dropdown menu.

Do not fill in the Repository field.

Level of description area

Enter the type of record group, either series, subseries, file, or item.

Dates of creation area

Enter only the dates but *not the creator*.

Physical description area

Fill in this area.

Archival description area

Fill in the Scope and content field.

Notes area

Do not fill in any fields which have already been filled in at the higher level.

Access points area

Only add access points that are unique to this level.

Control area

Status – Enter “Final.”

Level of detail – Enter “Partial.”

Administration area

Display standard – Choose RAD and check the box below



Series -S001 - Histories

St. Joseph's Hospital, Chatham, Ont. fo... > Histories

Title and statement of responsibility area		»
Title proper	Histories	
General material designation	<ul style="list-style-type: none"> • Textual record 	
Title notes	<ul style="list-style-type: none"> • Source of title proper: Title is based on the contents of the series. 	
Level of description	Series	
Repository	Congregation of the Sisters of St. Joseph in Canada	
Reference code	CA ON00279 F06-S001	
Dates of creation area		»
Date(s)	<ul style="list-style-type: none"> • 1930-1992 (Creation) 	
Physical description area		»
Physical description	1 cm of textual records	
Archival description area		»
Name of creator	St. Joseph's Hospital, Chatham, Ont. (1890-1993)	
Scope and content	<p>Series consists of annals of the hospital called chronicles; a house history consisting of an essay on the sisters; community history, newspaper clippings, correspondence, an invitation, flyers, and a press release; a memoir of a patient; and an essay ...</p>	
Control area		»
Status	Final	
Level of detail	Partial	

[Edit](#) [Delete](#) [Add new](#) [Duplicate](#) [Move](#) [More ▾](#)

You can create child levels for the next level, for example for the files in the higher series level. Make sure the number entered in the Identifier field is given with a hyphen preceding, and only the record group number, e.g., -01, for a file.

Generally, in our archive, for minimal processing, we do not enter file or item level descriptions in Archeion.

Level of description *				
Series				
Add new child levels				
Identifier	Level	Title	Date	x
-01	File	Book No. 2 Chronicles St. Joseph's Hospital Chatham		x
Add new				
Repository				
Identifier				
-S001				
Generate identifier Add alternative identifier(s)				

Identifier: Enter an unambiguous code used to uniquely identify the description. Level: Select a level of description from the drop-down menu. See RAD 1.0A for rules and conventions on selecting levels of description. Title: Enter the title proper, either transcribed or supplied. (RAD 1.1B)

Once you have entered the child levels, you can open each record. For example, as shown below, you would click on the link for File -01 shown below the link for the series on the left side of the screen.



Holdings Quick search

- ▼ Fonds F06 - St. Joseph's Hospital, Chath...
- ▼ Series -S001 - Histories
- File -01 - Book No. 2 Chronicles St. Jo...**
- File -02 - Chronicles St. Joseph Hosp...
- File -03 - House History 1952-1992
- File -04 - Memories of St. Jos. Hosp. C...
- File -05 - Significant events 1965-197...

[1 more...](#)

File -01 - Book No. 2 Chronicles St. Joseph Hospital Chatham

This archival description requires at least one date.
Physical description - This is a mandatory element.

St. Joseph's Hospital, Chatham, Ont. fo... » Histories » Book No. 2 Chronicles St. Joseph Hosp...

Title and statement of responsibility area	
Title proper	Book No. 2 Chronicles St. Joseph Hospital Chatham
Level of description	File
Repository	Congregation of the Sisters of St. Joseph in Canada
Reference code	CA ON00279 F06--S001--01

Archival description area	
Name of creator	St. Joseph's Hospital, Chatham, Ont. (1890-1993)

[Edit](#) [Delete](#) [Add new](#) [Duplicate](#) [Move](#) [More ▾](#)

Once everything has been proofread, it can be published. Until this point, keep everything unpublished.

Photos can be uploaded to Archeion. At the bottom of the record, click “More” and select “Link Digital Object.” Upload photo in JPEG format (under 100 MB). Then click “Create.” (**Note:** some descriptions will remain unpublished for privacy reasons.)

Creating archival descriptions for a series without a higher-level description

As explained above, the highest level of description can be either the fonds, sous-fonds, or series level. If it is the series, you enter an authority record for each series and give the administrative history or biographical sketch for each, as well as the dates of existence. The authority record will be linked to the series level, not the fonds level. Then, create an archival description for each series just like you would do for a fonds, but indicating it is a series level description. Enter the date span for the records in the series in the **Dates of Creation** area.

Section 9: Guidance on references

When referencing archival sources, identify the item, give the title of the record group, give the name of the archive, and the location of the archive.⁵ Reference other sources as follows:

Single-authored book:

H. Jenkinson, *A Manual of Archive Administration*, London, 1965, p.97.

Book with multiple authors:

M. Proctor and M. Cook, *Manual of Archive Description*, Aldershot, 2000, pp.23-35.

Book with editors:

M. Doyle (ed.), and C. Dignan (ed.), *Contribution of the Sisters of St. Joseph of the Diocese of London to the Hospital and Health Care Services in Canada* (1888-1992).

Article in an edited book:

H. Forde, ‘Conservation,’ in A. Turton (ed.), *Managing Business Archives*, Oxford, 1991, p.318.

Article in an academic journal:

D. Vaisey, ‘Archive Training Past and Present,’ *Journal of the Society of Archivists*, Vol. 22 No.2, 2001, pp. 231-236.

Website:

T. Cook, ‘What is Past is Prologue: A History of Archival Ideas Since 1898, and the Future Paradigm Shift,’ <http://www.mybestdocs.com/cookt-pastprologue-ar43fnl.htm>, accessed 12/9/2007.

Interview

Manzara, Loretta, pers. comm., July 10, 2019.

⁵ This style manual is adapted from the University of Dundee Master of Archival Studies program guidance.

Section 10: Copyright

The archive must follow Canadian copyright law.⁶

Before November 7, 2012, the person or corporation who owns the initial negative, plate, or photograph is the copyright owner. However, if the photographs were commissioned, the copyright usually belongs to the purchaser. Also, if photographs were taken by an employee during working hours, the copyright belongs to the employer. Prior to 2012, some photographs are in the public domain:

Before December 31, 1948	Public domain if owned by a person
Before December 31, 1961	Public domain if owned by a corporation
50 years after publication	Public domain if taken by Crown photographer

After November 7, 2012, the person who took the photograph is the copyright owner, even for commissioned photographs. Copyright lasts for the life of the photographer and the rest of the calendar year in which he/she died, plus 50 years. Therefore, any photograph is under copyright if the author is still alive or has died within the past 50 years.

Copyright may be assigned to someone else in writing or licensed by someone else.

Only photographs in the public domain should be uploaded to *Flickr The Commons*. Most photographs taken prior to 1949, are in the public domain.

For oral history recordings undertaken by the Congregation, the copyright is held by the Congregation. These are in the public domain 50 years after the date of recording or publication.

⁶ The discussion in this section is based on a workshop conducted by Jean Dryden for the Archives Association of British Columbia in 2021.

How to protect the Congregation from copyright infringement:

- a) Seek copyright permission from photographers for photographs in its holdings. It may not be possible to obtain a reply from a photographer, so it is important to keep documentation showing that efforts were made.
- b) Mark copies of materials provided to researchers with a stamp. Researchers must be made aware, by signing the *Research Agreement* and *Request for Reproduction* forms, that materials are made available only for research and private study.
- c) Ensure the *Deed of Gift* agreement is signed to ensure that copyright ownership is given to the archive if it is held by the donor.
- d) Provide copyright metadata when digitizing materials.
- e) When taking a photograph or making a video or audio recording of any person, a *Release Form* must be signed by that person.
- f) Take down any material on any website that infringes copyright if a request is received from a copyright owner.

The next section gives the *Archives Copyright Policy*.

Archives copyright policy

The Archive must respect the *Copyright Act* in its outreach work, including publishing, creating exhibits and displays whether physical or digital, and in providing reference services.

Usually, the copyright holder is the creator, but in the case of an employee being a creator as part of their work, the employer is the copyright holder. In the case of Crown works, the Crown is the copyright holder.

Even if creators are not the copyright owners, they have a right to be associated with their work and not have their work modified or used in a way that would damage their reputation. This is their moral right.

Public domain

Copyright does not last forever. A work in the public domain can be used without permission from the copyright holder and without paying royalties unless it is an unpublished Crown work.

Length of copyright

For works by living creators, the works are still under copyright.

A) Photographs

Photographs that were commissioned (work for hire) before November 2012 are owned by the purchaser. Photographs taken after November 2012 are owned by the photographer until 50 years after death. Photographs taken before 1949 are in the public domain if not Crown works.

Otherwise, photographs are in the public domain 50 years after the death of the last creator, in January of the following year.

Photographs owned by a corporation are in the public domain 50 years from the date of creation unless the creator is the majority shareholder in which case copyright lasts for 50 years after the death of that person, in January of the following year.

B) Textual works

For unpublished works, the work is in the public domain if the last author died before January 1, 1949. If the last author died between 1949 and December 31, 1998, the work is in the public domain on January 1, 2049. For authors who died after 1998, the work is in the public domain 50 years after the death of the last author, in January of the following year.

For published works, the work is in the public domain 50 years after the death of the last author living when the work was published, in January of the following year. If the author was not living at the date of publication and the work was published before January 1, 1999, the work is in the public domain 50 years after the date of publication. If the author was not living at the date of publication and the work was published after 1998, it is in the public domain 50 years after the death of the last author in January of the following year.

For works with unknown authors, the work is in the public domain 50 years after the publication date or 75 years after the creation date, in January of the following year.

For Crown works, the work is in the public domain 50 years after the date of publication.
Unpublished works are not in the public domain.

C) Sound recordings

A copyright owner holds all rights to reproduction, derivatives, distribution, performance, display, and public performance of sound recordings via digital audio transmission.

Sound recordings are in the public domain 50 years after creation.

Definitions

Copyright: A property right that protects the interests of the creator or person/organization to which copyright has been assigned, giving them control over the reproduction, publication, adaptation, performance, or display of the work.

Public domain: Works that are unprotected by copyright law.

Procedure

Copyright permissions

The Archives will make efforts to research the ownership of photographs and request copyright permission from copyright holders for publication and display using the *Assignment of Ownership by Photographer* form.

Preservation

Archives are allowed under the fair use provision of the *Copyright Act* to reproduce materials for preservation purposes.

Donations

Donors must assign ownership and copyright to the Archives for all donations. If the donor does not hold copyright, the Archives must make determined efforts to contact the copyright owner and obtain assignment of copyright to the Archives. This can be done by sending a letter by registered mail and keeping a copy of the letter and receipt on file.

Websites

The Archives will takedown any material displayed on the web if a copyright owner requests this to be done.

The Archives will include this *Rights Statement* on all its websites:

The photographs featured on this site come from the Congregation of the Sisters of St. Joseph in Canada Archives and, to the best of our knowledge, there are no copyright restrictions associated with them because they are either in the public domain, or the copyright is owned by the Congregation of the Sisters of St. Joseph in Canada, or there is no known copyright. These images are intended for private reference and research, and we cannot assume liability for any other use of these photographs.

The images on the website are in jpeg format. The images must not be altered or manipulated in any way. The images must not be used for commercial purposes. Proper credit must be given when any image is used, as follows:

Credit:

Images courtesy of the Congregation of the Sisters of St. Joseph in Canada Archives.

We are committed to observing copyright law. If we have inadvertently infringed on the intellectual property rights of copyright holders with respect to these photographs, please do not hesitate to contact us with specific details.

Reference

The Archives will only make one copy of any material requested by a patron under the fair dealing provisions of the *Copyright Act* for research, private study, education, parody or satire, criticism or review, or news reporting. This includes unpublished material and portions of published material. Other use of copyrighted material is protected by law and requires permission from the copyright holder, whether the material is published or unpublished.

Archives patrons will be asked to complete a *Research Agreement and Request for Reproduction* for all inquiries. For any use of archival materials that does not fall under fair dealing, the patron must obtain written permission from the copyright owner if the material is not in the public domain. If the Archives cannot provide the information about the copyright owner to the patron, it is the patron's responsibility to determine who owns copyright and to locate the copyright owner.

Review

This policy will be reviewed every three years.

Benchmarks:

This policy is effective if copyright ownership is respected including the moral rights of creators, but if not, the congregation risks legal action by copyright owners.

Responsibility

This policy is owned and supported by the Congregational Leadership Circle. The Congregational Archivist is responsible for the management and support of this policy. Congregational members and staff are responsible for transferring records to the Archives.

Documentation

Copyright Act, RSC 1985, c C-42

Research Agreement

Request for Reproduction

Assignment of Ownership by Photographer

References

Pearce-Moses, R. (2005). *A Glossary of Archival and Records Terminology*. Chicago: Society of American Archivists.

Section 11: Privacy

The Archive should follow best practices when it comes to privacy. The records held by the archive which are the most critical to consider in terms of privacy are deceased Sisters' personal files; orphanage records; and student records.

When processing deceased Sisters' personal records, ensure that all health records are placed in a folder with the year of death and the label "restricted." These records are restricted for 50 years after death. All other deceased Sisters' personal records are restricted for two years after death, and then only available to family members.

School records are only released to the person to whom they pertain or to their authorized representative, or with the written permission of the individual.

Orphanage records are only released to the next of kin if the person to whom they pertain has died, or if the person is still living, to their authorized representative, or with the written permission of the individual. Records older than 100 years may be released to any member of the public. As of 2021, this means records from 1921 and earlier.

Avoid sharing photographs of children or hospital patients if they can be identified, unless the photographs are 100 years old, which means as of 2021, records from 1921 and earlier.

When taking a photograph or making a video or audio recording of any person, a *Release Form* must be signed by that person.

The *Archives Privacy Policy* is given in the next section.

Archives privacy policy

The *Freedom of Information and Protection of Privacy Act* (FIPPA), applies to provincial ministries and agencies, colleges and universities and municipalities and local boards. Under this legislation, access is not permitted to personal records on behalf of a third party unless consent is given by the person, but the laws permit access 30 years after death of the person. However, records that are privately donated are excluded and access is governed by a deed of gift. The *Personal Health Information Protection Act* (PHIPA) applies to personal health records under the control of a health information custodian (not an archives). Personal health information is protected until the expiration of the earlier of 120 years after the record was created or 50 years after the death of the individual. For these types of records held in an archive, PHIPA applies. The *Personal Information Protection and Electronic Documents Act* (PIPEDA), applies to private sector commercial activities in Ontario. It does not apply to non-profit or charity groups unless they are conducting commercial activities, and then only in that context. It protects personal information for 100 years after the information was collected or 20 years after the death of the person. In Ontario, FIPPA as well as federal legislation (PIPEDA and the Privacy Act) do not apply to religious archives.

The Archives will strive to follow best practices set forth under provincial and federal privacy legislation even when not governed by this legislation. The Archives will also follow the International Council on Archives' *Principles of Access to Archives*.

There are records in the Archives which contain personal or sensitive information. These records include deceased Sisters' records, withdrawn Sisters' records, staff and student records of educational institutions, staff and patient records of health care institutions, and orphanage records. Sometimes, the information contained in these records is particularly useful for genealogists and serious researchers. Therefore, a balance must be struck which follows the spirit of the law.

For this reason, the Archives has developed a privacy protocol. In general, each request for access must be made in writing, using *Research Agreement* and *Request for Reproduction* forms. Each request is then evaluated based on the purpose of the request, who is making the request, and using this *Privacy and Access policy* as a guide.

The Archives will put restrictions on records for specified time periods, should records contain sensitive information, or should such restrictions be required following best practices under privacy legislation. These restrictions may be put in place for specific periods of time, or applied only to members of the public, but will be applied equally in all cases, without discrimination based on race, gender, religion, belief, or social status of the patron.

All records transferred or donated to the Archives are subject to this *Privacy and Access Policy*.

The Congregational Archivist must be knowledgeable in privacy and copyright law. Archives staff may have access to restricted records to carry out their work but must keep confidential any knowledge they acquire in the course of their duties.

General restrictions

1. Records containing information, the disclosure of which would violate the personal privacy of a living person, will only be released to the named individual to whom they relate or her/his authorized representative, or with the written permission of the named individual, and that permission will be kept on file. These records are open to the Congregational Leader or her designate.
2. Academic records will only be released to the named individual to whom they relate, or her/his authorized representative, or with the written permission of the named individual, and that permission will be kept on file. These records are open to the Congregational Leader or her designate.
3. Information from orphanage records will only be released directly to the person to whom the records relate, or to his/her authorized representative, or with the written permission of the named individual. If that person is not living, information can be released to their next of kin. However, Ontario law prevents the release of any identifying information about birth parents. Records which are 100 years old or more, are open to the public.
4. Identifying information concerning recipients of donations, bursaries, or other charitable works will not be released except to the Congregational Leader or her designate.

5. Consent is required of living persons depicted in photographs, videotapes, or sound recordings and their captions and related transcripts to publish or display. Materials will not be published or displayed if they depict children or people in trouble. A *Release Form* must be signed by the living person.
6. Deceased Sisters' personal files are restricted for two years after death and are open only to the Congregational Leader or her designate. After this period has expired, access is restricted to the Congregational Leader or her designate, and to family members of the deceased Sister.
7. All personal health information of any individual is restricted for 50 years after death.
8. The names of withdrawn Sisters will never be released except to Congregational Leader or her designate.
9. Materials which contain confidential business and financial information is open only to the Congregational Leader or her designate, until the passage of time is such that the release of the information would not result in harm or prejudice to the parties identified in the materials.
10. Materials containing information about confidential decision making will only be disclosed if the decision has been made public and the nature of the determinations leading to the final decision is known, or the passage of time is such that the release of the information would not impede current decision making, or the public interest in disclosure outweighs the continued need for privacy. These materials are open to the Congregational Leader or her designate.
11. Materials restricted by statute or court order may be disclosed only in accordance with the provisions of the statute or court order.
12. The Archives may collect personal information related to donors, patrons, and volunteers, but this personal information will be kept confidential.
13. No access will be provided to unprocessed collections because this material may not have been reviewed for potential restrictions due to sensitivity or privacy.

Specific restrictions

1. Records donated to the Archives may be restricted for a specific period as agreed to in a *Deed of Gift*.
2. Restrictions on the records of deceased Sisters which are not their personal files may be put in place for a period of 30 years after death if the material is deemed sensitive.
3. Other access restrictions may be placed on records by the Congregational Archivist if the records are deemed for congregational use only, or as requested by the Congregational Leader or her designate. These access restrictions must specify who is allowed access, and the period of the restriction.

Definitions

Open: There are no restrictions on open records.

Restriction: A restriction is a limitation on the access to archival records by a patron. Such a restriction may involve a period for which access is limited, or it may involve not allowing access to certain individuals. Such restrictions are put in place to protect personal privacy or meet requirements under the law.

Procedure

Decisions on restrictions will be noted in the accession record.

Restricted records will be noted in finding aids.

Because the Archives does not have space to store restricted records separately, these records shall remain in the fonds and series in which they are arranged. Each file in a series containing restricted records should contain a *Withdrawal Sheet* listing the restricted items.

Electronic records which are restricted will be stored in a separate space on the computer drive and the metadata will clearly indicate the conditions of the access restrictions.

If part of an item can be made available, Archives staff can make a copy of the original and redact the restricted information from the copy by blacking it out, and then providing the patron

with a use copy of the redacted copy and placing the redacted copy back in the file with the *Withdrawal Sheet*.

Periodic reviews of specific restrictions should take place to determine whether the restrictions can be removed. When restrictions are removed, the *Withdrawal Sheet* and redacted copies should be removed from any file in which these were placed, and the finding aid should be updated. The accession record should also be updated.

Review

This policy will be reviewed every three years.

Benchmarks:

This policy is effective if archival records are open to access but records that contain sensitive or private information are restricted to access, thus protecting the congregation from liability risk.

Responsibility

This policy is owned and supported by the Congregational Leadership Circle. The Congregational Archivist is responsible for the management and support of this policy. Archives staff are responsible for ensuring access restrictions are enforced.

Documentation

Personal Health Information Protection Act, 2004, SO 2004, c 3, Sch A, Release Form

International Council on Archives. (2013). Principles of Access to Archives,
<https://www.ica.org/en/principles-access-archives>

Withdrawal Sheet

Research Agreement

Request for Reproduction

References

International Council On Archives, Committee On Best Practices And Standards, Working Group On Access. (2014). *Principles of Access to Archives. Technical Guidance on Managing Archives with Restrictions.*

Pearce-Moses, R. (2005). *A Glossary of Archival and Records Terminology*. Chicago: Society of American Archivists.

Section 12: Image digitization guidelines – general

Overview

The main goals in digitization are to preserve fragile analogue records by providing a surrogate for handling, as well as to improve access to records. The digital preservation master replaces the analogue record, but the analogue record should always be kept, in case another master needs to be made. It is always best to make the preservation master from the best original, because each succeeding copy loses quality.

Making masters from originals should be infrequent since each time this takes place the original is damaged by handling. It is best to make a service master from the preservation master, and to make access copies from this. The preservation master must be migrated and stored in more than one location to protect against loss. The preservation master should be a high resolution, non-compressed (lossless not lossy), open (non-proprietary) format, with associated metadata to reduce the loss of information and ensure long-term access.

Always keep the original, whether analogue or digital. Also, always keep the digital preservation master.

Standards for photographs and text

Analogue film is a light-sensitive emulsion (often gelatin) on a base (often plastic). Light strikes silver halide crystals embedded in the gelatin, preserving the image. When the film is processed, the developer chemicals used react with the silver halide crystals. The film is rinsed, and a fixer is added which removes crystals that were not exposed to light.

There are two categories of analogue film. One category is black and white or color negative film. This is a reverse image where the blackest parts are where more light hit the emulsion, and the lightest parts are where less light hit the emulsion. Other parts are shades of gray. The negative has light passed through it onto to print onto special paper coated with light sensitive silver compounds. Color film has different layers of emulsion for different colors. It is printed the same way as black and white film.

The other category is color slides (transparency or reversal films). Color slides are direct positive films which means the film that goes in your camera and the slides you get back are the same film. Color reversal film has three color layers.⁷

We can produce digital surrogates of both types of analogue film using a scanner. The scanner is the input device, and the monitor and printer are the output devices. The scanner scans a black and white image in one channel grayscale, or a color image in three channel grayscale. All color in digital images is created by the output devices.

Another name for a digital image is a raster image. Digital images are made up of pixels in a grid. The pixel itself is made up of bits. Bit depth measures the numbers of colors or grays available to represent an image. A bitonal image has only two bits per pixel. A grayscale image has 8-bits per pixel (2^8), making 256 tones ranging from black (0) to 255 (white) with all 254 shades of gray in between. You can also have a 16-bit grayscale image. A color image has 24-bits per pixel in three 8-bit channels. With this type of image, you have over 16 million colors (256 per channel x 256 x 256). You can also have a 48-bit color image.

⁷ Kodak, 'Understanding Film: The Basics,'
<http://wwwca.kodak.com/global/en/consumer/education/lessonPlans/lessonPlan152.shtml>

We save images in an open standard format at high resolution, whether the original is a photo or text. Image resolution is measured by pixels per inch (PPI) or how the height and width of a digital image is represented. The greater the PPI, the more samples of an image are taken, and the higher the resolution of the digital copy. To have an archival quality photo, we need to have higher PPI, larger bit depth, and more bits per pixel for color depth (8-bit for grayscale and 24-bit for color).

With printing, the actual pixels are rendered in ink. Printing resolution is measured in dots per inch (dpi) or the number of ink dots and spaces between dots printed on a square inch of paper. Digital images don't have a true size until they are printed. CMYK (Cyan-Magenta-Yellow-Black) is the color spectrum for printing but is not used for archival scans. Instead, we use RGB (Red-Green-Blue) or grayscale. RGB is a wide color space used to capture color information about an image and is used instead of sRGB which is a narrow color space used for the web.

If possible, when using a camera, save the image in DNG (raw) or TIFF format. Set the camera to the highest resolution or file size setting which should be 10 mega pixels or higher resolution and 24-bit color depth. Save scans as uncompressed TIFF format for the master whether the source is text or image.

Table 1 Bit depth, color space, resolution, and format for preservation masters

Record type	Bit depth	Color space	Resolution	File Format
B & W photo	16-bit (scan at 16-bit and convert to 8-bit for service master)	Grayscale	600 ppi (6000 pixels divided by long side)	TIFF for preservation/service master JPEG for access copy
Color photo	48-bit (scan at 48-bit and convert to 24-bit for service master)	Adobe RGB	600 ppi (6000 pixels divided by long side)	TIFF for preservation/service master JPEG for access copy
B & W text	16-bit (scan at 16-bit and convert to 8-bit for service master)	Grayscale	300 ppi	TIFF or PDF/A with OCR for preservation master/service master JPEG or PDF with OCR for access copy
Color text	48-bit (scan at 48-bit and convert to 24-bit for service master)	Adobe RGB	600 ppi (6000 pixels divided by long side)	TIFF or PDF/A with OCR for preservation/master/service master JPEG or PDF with OCR for access copy
35 mm (1 3/8" x 1") to 4" x 5" negatives and slides	48-bit (scan at 48-bit for color and 16-bit for b&w and convert to 24-bit for color or 8-bit grayscale for b&w service master)	Adobe RGB or grayscale	4000 ppi (6000 pixels on long side)	TIFF for preservation/service master JPEG for access copy

Color management

The workflow for color management involves scanning original photographs using a calibrated monitor and scanner and editing in the Adobe RGB (1998) workspace for color images or Gray Gamma 2.2 workspace for grayscale images.

A *color space* is a color range, and there are different color spaces for different purposes. Your scanner has a device dependent color space and so does your monitor. This color space includes the colors that can be captured or displayed relative to a set of reference colors. This set of reference colors is either CIE xyz (1931), CIE L*a*b*, or CIE L u'v' (1976).

The information about the color space used by a device (such as a scanner, monitor or printer) is called a *profile*. This is a color space saved as a document on your hard disk. It describes but does not control or change the device. It defines the relationship between the numeric values of pixels the device receives and transmits, and a standard ICC color space based on the CIE measurement system.

A *Color Management Module* (CMM) such as Adobe ACE uses the profiles for your scanner and monitor along with the *rendering intent* you select to translate color in an image file between your devices. The rendering intent tells the CMM how to treat colors which are out of the color range (known as gamut) when translating between color spaces. There are three main rendering intents: perceptual, relative, and absolute colorimetric. Perceptual rendering intent squeezes the colors from a larger color space into a smaller space, and the colors in the smaller space may shift. Relative rendering intent cuts off colors from a larger color space so that there is no change to the colors that must fit into a smaller space. Absolute rendering intent keeps the white point in the larger and smaller color spaces the same.

A *working space* is a work area which is not tied to any device. The working space constrains colors to a standard range such as Adobe RGB (1998) in image editing programs like **Photoshop**. **Photoshop** assigns new image files a profile based on the Working Space options you select in the Color Settings dialog box. The two common working color spaces are Adobe

RGB (1998) and sRGB IEC61966-2.1. (ProPhoto RGB is the widest gamut color space, and sRGB is the smallest.) We use Adobe RGB (1998) as our working space. When editing in **Photoshop**, we may also choose to display the L*a*b* values when editing slides or negatives.⁸

Our archive uses a NEC MultiSync P232W LCD monitor. (The monitor displays sRGB color which is a smaller gamut than RGB display.) Make sure the monitor is calibrated to D65 (6500 degrees Kelvin) at 120-140 cdm (120 candelas per square meter), 24 millions of colors, Gray Gamma 2.2. It should be calibrated every month. The Spectra View software and Spectra Sensor Pro colorimeter tool creates the profile for the monitor.

When using the colorimeter, make sure to position it with the white side (diffuser) facing out towards you and the lens on the monitor surface. The software will ask the monitor to display color values, and the colorimeter will measure the colors that are produced. If the color values produced don't match what is expected, the profile that is produced will reflect this and adjust the monitor to get closer to the expected color values.

If you are measuring the ambient light in the room, set the colorimeter on the monitor, put the diffuser over the lens and point it away from the monitor. In this case, both the lens and diffuser face away from the monitor towards you. The ISO recommendation is a room illumination of < 32 lux and 5000 K.

Our archive uses an Epson Perfection V700 Photo Scanner with an optical resolution of 4800 ppi and 6400 ppi. We use an IT8 target and **SilverFast** software to build an ICC profile for our Epson V700 scanner, and a profile for our Epson Sure Color P400 printer.⁹

⁸ L stands for lightness, *a stands for red green, and *b stands for yellow blue.

⁹ Federal Agencies Digital Guidelines Initiative. (2016). Technical Guidelines for Digitizing Cultural Heritage Materials, <https://bit.ly/38EHR3R>

General scanning and editing tips

1. For oversize items use a desktop tripod. Place a level on the tripod and on the item being photographed to ensure they are level. Place weights on the tripod to position it if you need to bend it over the item. Use small supports under one side of a book to keep the sides level if the spine is open.
2. Don't apply any automatic adjustments while scanning, other than Unsharp Mask.
3. Always edit a *duplicate*, not the original. Create a preservation master and make a duplicate service master from it. Use the service master to create further edited versions for print or for the web.
4. The service master is edited only to rotate it if needed, to crop out the color target, and to correct color and tone.
5. In **Photoshop**, do not use any tools that make automatic or global editing changes.
6. Don't work on "layers" in **Photoshop** to make editing adjustments.

Quality control

1. You can check the quality of your scan by double clicking on the image file to open it in **Photoshop**. Make sure to view the image at a 1:1 ratio. Do this by choosing *View > 100%* or click 100% in either the Zoom tool or the Hand tool options bar. Compare the scanned image visually with the original image. *It is better to rescan than to try to correct using Photoshop*. Make sure the image is the correct orientation and straight. There should be no dust or dirt spots, no banding or posterization, no moiré patterns and no pixelation. If batch scanning, inspect 10% of the preservation masters.

Compare this well-digitized photo with the poorly digitized version of it that follows:





SISTER EUGENIA CALLAGHAN
at Mount St. Joseph

Banding looks like this on the sky in this photo:



Moiré patterns show up on the pillars and stonework design in this photo:



Pixelation looks like the polka dot effect in this photo:



Once you have finished, you can upload scanned targets and images to evaluate whether they adhere to Federal Agencies Digital Guidelines Initiative (FADGI) standards at <http://delt.ae/>

Prepare images

Always wear gloves, even when handling the color target and scanner. This is what happens when you don't wear gloves. The acids on the finger have etched a fingerprint into the emulsion on this photograph:



Remove dust from the image using a blower, compressed air, or brush. For slides and negatives, use a magnetic brush and compressed air.

Use PEC 12 for removing greasy or oily residue on photographic prints. Spray it onto a cotton swab. See Appendix V for more on cleaning photographs.

Let the scanner and monitor warm up for half an hour. Clean the monitor screen with a pec pad. Clean the scanner white pad and glass underneath the pad first, then the glass platen with a pec pad or blower.

File naming

The digital file name contains the identifier, which does not have any affixes. Write the identifier without any prefixes or suffixes on the photograph enclosure or base side of slide. *See identifiers in bold examples below:*

For *arranged items*, use the archive numbering system. Use hyphens or underscores, not spaces, and lower case.

f01-s001-01-001 = identifier	mf01-s001-01-001 = identifier
f01-s001-01-001 -pm.tif = filename	mf01-s001-01-001 -pm.tif = filename
f01-s001-01-001 -sm.tif = filename	mf01-s001-01-001 -sm.tif = filename
f01-s001-01-001.ac.jpeg = filename	mf01-s001-01-001.ac.jpeg = filename

For *non-arranged items*, number each subfolder and items within these folders consecutively.

Use hyphens not spaces and lower case. Use prefix *lo-* for London, *pt-* for Peterborough, *pe-* for Pembroke, *ha-* for Hamilton and *ma-* for Main archive. Follow each prefix with a consecutive three-digit number for each subfolder. Each item is then given a consecutive three-digit number. Appropriate affixes are added to indicate preservation master, service master or access copy.

Folder = Slides Book 1	
Subfolder = lo-001-Mount-St-Joseph-Motherhouse	Subfolder = lo-002-Concert-Band
lo-001-001 -pm.tif	lo-002-001 -pm.tif
lo-001-001 -sm.tif	lo-002-002 -pm.tif
lo-001-001.ac.jpeg	etc.

Folder = Peterborough	Folder=Pembroke
Subfolder = pt-001-Hospital	Subfolder = pe-001-Music School
pt-001-001 -pm.tif	pe-001-001 -pm.tif
pt-001-001 -sm.tif	pe-001-001 -sm.tif
pt-001-001.ac.jpeg	pe-001-001.ac.jpe

Metadata

Fill in the Dublin Core metadata fields on the spreadsheet (see below). Do not use ending punctuation except in the *Description* element. Do not put a period after an abbreviation.

Label: Title

Definition: An unambiguous reference to the resource within a given context.

Comment: Use CSJ Archives numbering system.

USE IPTC fields: Title

Label: Creator

Definition: An entity primarily responsible for making the content of the resource.

Comment: Use name of author, photographer, interviewee if known. Otherwise omit this element.

USE IPTC fields: Creator

Label: Rights

Definition: Information about rights held in and over the resource.

Comment: No material should be digitized unless copyright or copyright permission is held by the Congregation, or the material is in the public domain.

USE IPTC fields: Copyright Notice

Label: Date

Definition: A date associated with an event in the life cycle of the resource.

Comment: Give the original date of creation of the source object, with the qualifier Created. Use ISO 8601.

USE IPTC fields: Date Created

Label: Rights Holder

Definition: A person or organization owning or managing rights over the resource, i.e., owner or copyright holder.

Comment: Use name of owner or copyright holder.

USE IPTC fields: Source

Label: Description

Definition: An account of the content of the resource.

Comment: Use a photo caption, a summary, or describe in your own words.

USE IPTC fields: Description (Caption, Abstract)

Label: Subject

Definition: The topic of the content of the resource.

Comment: Use keywords from title or description. Can also use Library of Congress Subject Headings.

USE IPTC fields: Keywords

Table 2 Metadata fields for images

Dublin Core metadata	IPTC field	Explanation	Notes
Title	Title	Enter DC Identifier. Use file naming conventions. Enter identifier without affixes.	64 characters F01-S001-01-001 lo1-001 Uploads to Flickr and archives website
Creator	Creator	Use name of photographer or author if known. Otherwise omit this element.	32 characters <i>John Brown / Beta Photos</i>
Rights	Copyright Notice Copyright Status	Indicate whether public domain, name of copyright holder, or “Congregation continues to research.”	32 characters <i>Congregation of the Sisters of St. Joseph in Canada or name of photographer if known</i>
Date	Date Created	Give the original date of creation of photograph or document. Use hyphen delimiters.	8 characters YYYY-MM-DD. Use probable century or decade or first day of first month if exact date unknown <i>1900, 1960, 1951-01-01</i>
Rights Holder	Source	Give the name of the organization managing the rights.	<i>CSJ Canada</i>
Description	Description	Use a photo caption, a summary, or describe in your own words.	2000 characters <i>Sister Callistus Arnsby on her 60th jubilee wearing a corsage</i> Uploads to Flickr and archives website
Subject	Keywords	Use controlled vocabulary and semicolon delimiters. Do not use a comma between words in a phrase	64 characters <i>Celebration Guelph Ontario</i> Uploads to Flickr

Section 13: Workflow for print photographs

1. Make sure images are arranged and numbered within a fonds, or according to the established numbering system for non-arranged images. See Section 12 on file naming c (also Section 6).

Create and name folders in which images will be stored on the drive.

2. Measure the length and width of each image in inches, not including any borders or the mat, and record on spreadsheet.
3. Photographs are numbered *on back (verso) on lower right corner* using a Stabilo or soft lead pencil.
4. Make sure the image is straight and oriented correctly on the scanner bed. If not, fix it before scanning. You don't want to make rotations in **Photoshop** because this will slightly degrade the image. If necessary, when editing, it is permissible to rotate service masters by 90 degrees, but never preservation masters.
5. Place a black matboard behind prints before scanning. Use the white document mat. Include the color target along the short side of the print when you scan, leaving a space between the print and target so that the target can be cropped out later. The black patch should be on the lower right.

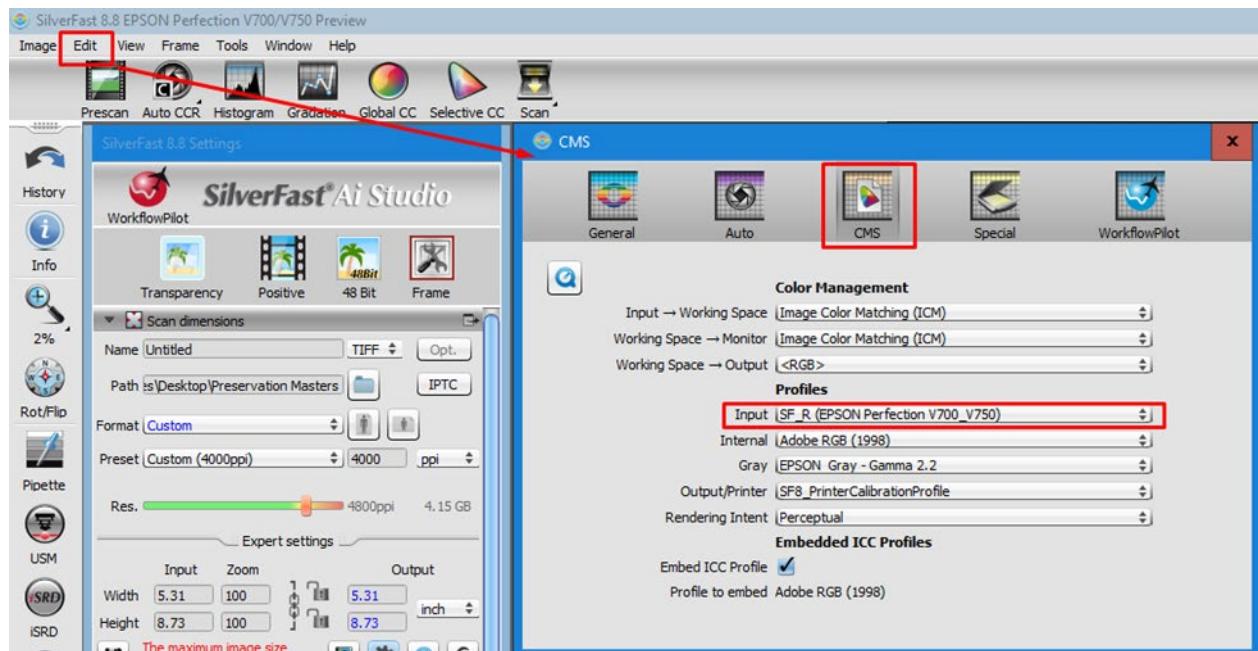
6. We scan the **X-Rite Color Checker Mini** target along with the color or black and white photograph. This gives us a constant reference point for color and grayscale. For both color and black and white photographs use the Lindbloom chart to compare target values for black ((53-53-53), gray (122-121-120), and white (242-241-236).¹⁰ These correspond to the color target white, gray, and black patches on the bottom row:



Adobe (1998)					
106	182	103	95	129	133
81	149	122	108	128	189
67	130	154	69	174	170
194	79	170	84	167	213
121	91	85	62	186	162
48	162	97	105	73	57
54	101	152	228	164	63
62	148	48	199	83	134
149	76	58	55	144	163
242	200	159	122	84	53
241	200	160	121	84	53
236	199	159	120	84	53

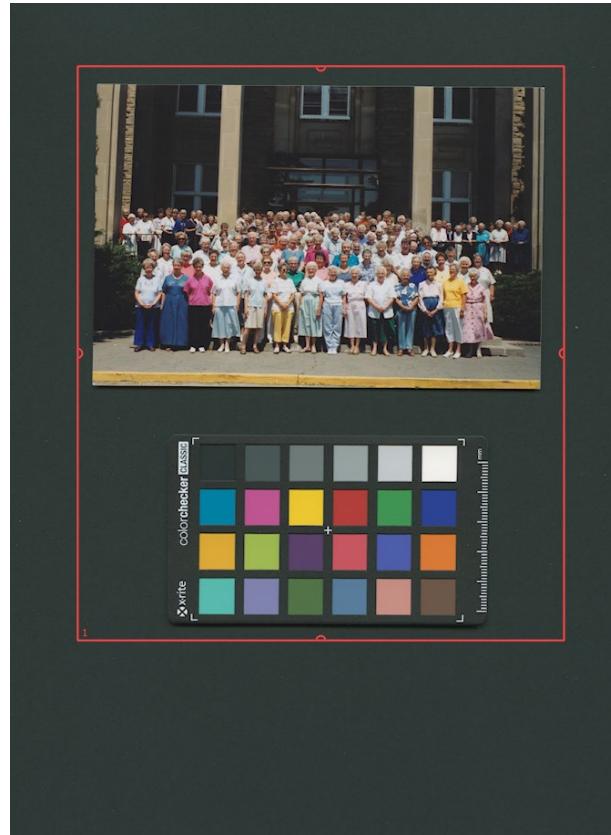
¹⁰ Lindbloom, Bruce. ‘Color Checker RGB Summaries, Spreadsheets, and LAB TIFF File,’ <http://www.brucelindbloom.com/index.html?ColorCheckerRGB.html>

7. Open **SilverFast** software and press the *Start* button.
8. Set preferences for color management under *Edit* > Preferences > CMS > Profiles, Input=SF_R (Epson Perfection V700).



9. Under the palm tree icon buttons, select *Reflective*, *Positive*, and *48-bit color* for color images and *16-bit grayscale* for black and white images. Do not select the HDR options.
10. Under *Name*, use file naming conventions and add the fonds, series, subseries, file, and item number along with the suffix -pm to name the file, for example HF01-S002-01-09-002-pm.
11. Set the scanning resolution under *Preset* to scan at 6000 pixels along the long side of the object. For example, to scan a 4" x 5" photograph, set the scanning resolution to 1200 ppi. The formula is 6000 pixels divided by the long side in inches, in this case, 6000 divided by 5" = 1200 ppi.

12. Choose *Prescan*. There should be a red marquee around the image. Move the marquee by pulling from the top left and bottom right corners to set image borders including color target.



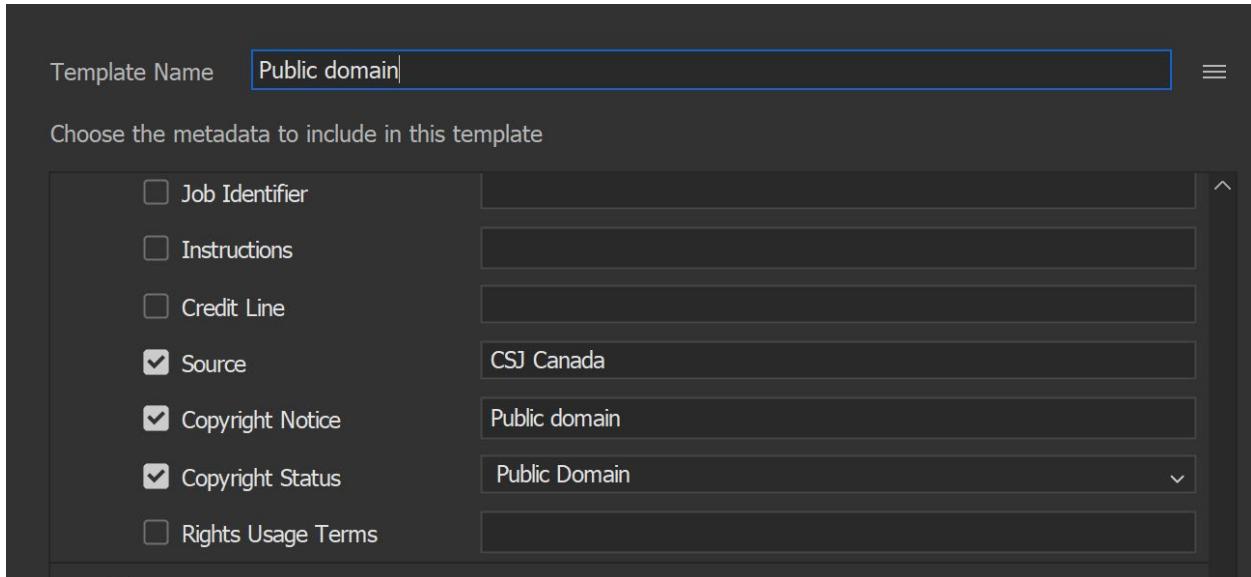
13. Select *Scan*. When finished, you will have a preservation master.

14. Open **Photoshop**. Choose *File > Browse in Bridge*. Open the folder where your preservation masters are stored.

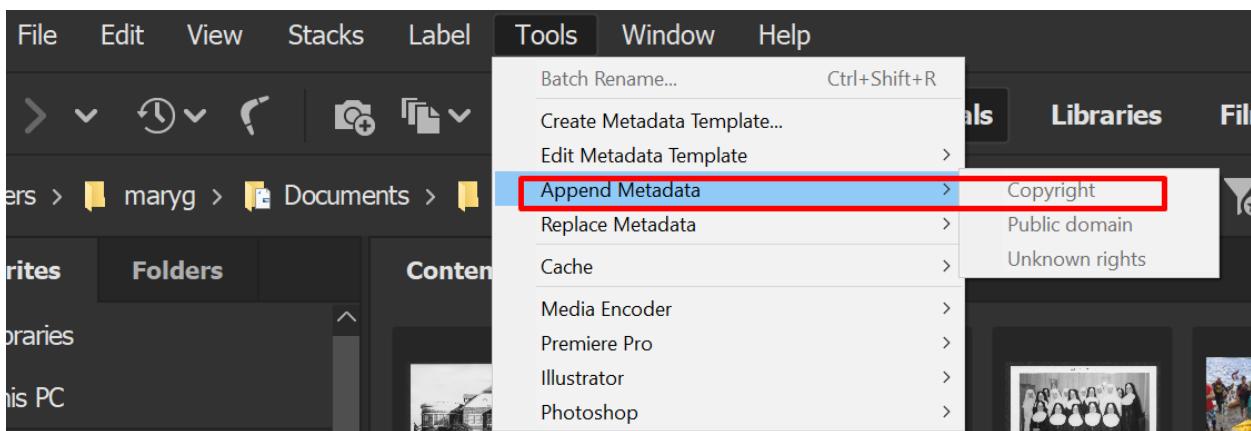
15. You will add metadata to the IPTC fields, (the International Press and Telecommunications Council core metadata schema). Use the spreadsheet where you originally recorded metadata to find metadata to embed in the preservation master. In **Bridge**, go to the IPTC Core fields under the *Metadata* tab. Select the preservation masters that you want to add metadata to, either individually, or in a batch. You can also create a metadata template:

- a. In **Bridge**, open the *Create Metadata Template* dialog box from the menu bar, then *Tools* -> *Create Metadata Template*.

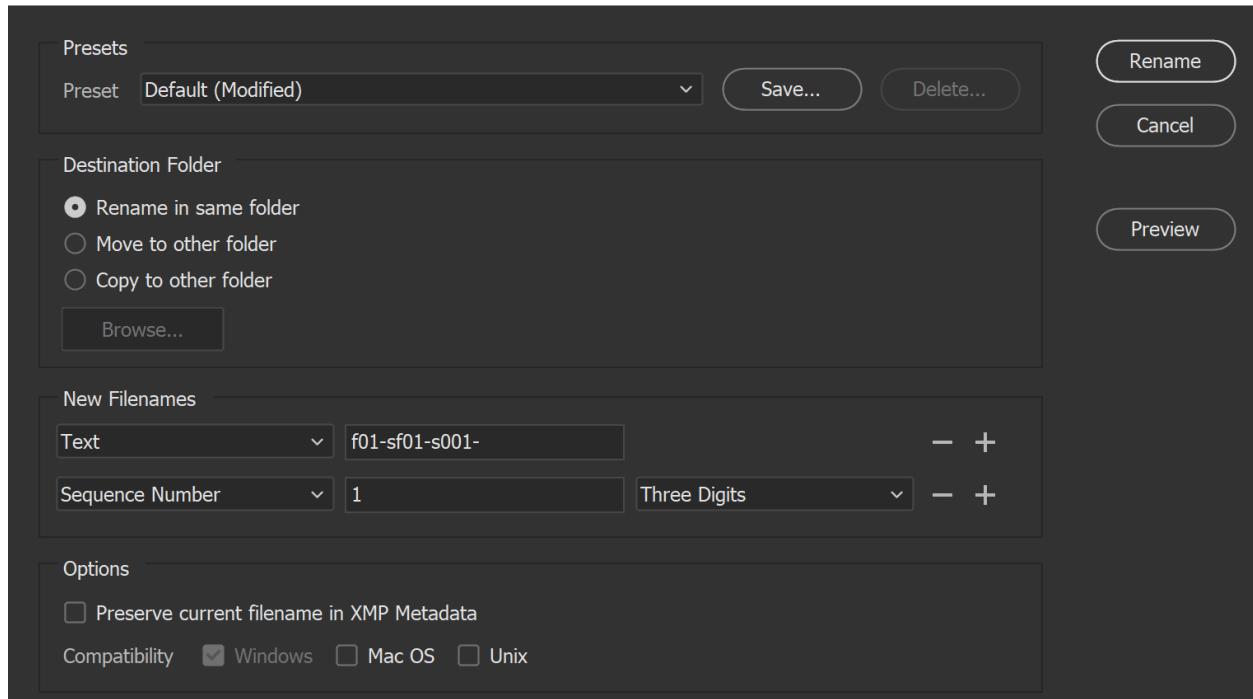
- b. When you see the *Create Metadata Template* dialog box, check the IPTC Core fields you want to use, and enter metadata. Then click *Save*.



- c. Select the images you want to add metadata to, and then from the menu bar, under *Tools*, choose *Append Metadata* and choose the template.



16. You can batch the filenames in **Bridge**. Select the preservation masters you want to rename. Go to *Tools > Batch Rename*. Make sure the *Rename in Same Folder* radio button is selected. Add text and sequence number, choosing three digits for sequence number. For example, text = f01-sf01-s001- and sequence number = 1, three digits.



Make sure to choose *Preview* to check the new names before clicking the *Rename* button. Once you have set up the renaming sequence, it will automatically begin where you left off for the next batch of images you scan, unless you change the text and sequence number.

17. Open the preservation master in **Photoshop**. Go to *Image > Duplicate* to make a copy of the preservation master. Delete the suffix *-pm* and change the suffix to *-sm*. This will ensure that you are editing a copy, not the original, because changes you make will be permanent. Choose *OK*. Close the preservation master. **Note:** The preservation master and service master will share the same Identifier in their metadata but have different affixes in their filenames to differentiate them.

18. . Select *Window > Info*. Select *Image > Adjustments > Curves*.

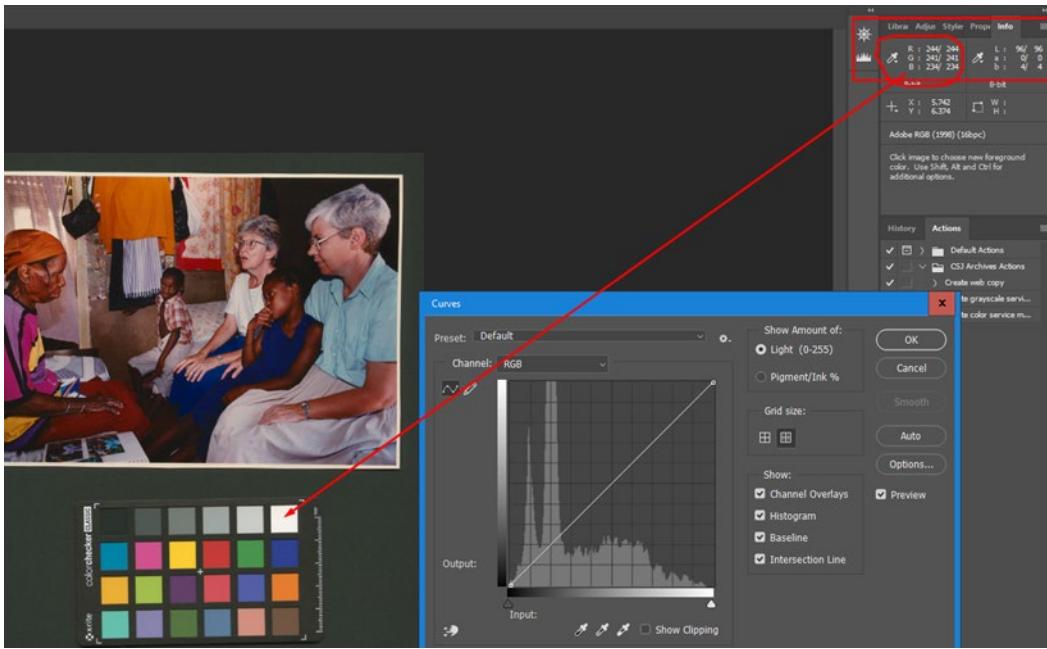
In *Curves*, you will see a graph dialog box. The upper right area of the graph represents the highlights, and the lower left area represents the shadows. The horizontal axis represents the input levels (original image values) and the vertical axis represents the output levels (adjusted values). You can add more points directly to the curve to adjust areas. Dragging a control point up or down adjusts the brightness, and dragging it left or right adjusts the contrast.

You can check and uncheck the *Show Clipping* box to see if clipping occurs as you work. You can also toggle between the before and after views by checking or unchecking the preview box.

19. Hover over the *target* patches to see the number value. Check if they match the Lindbloom chart values repeated below, varying only by + or – 10:

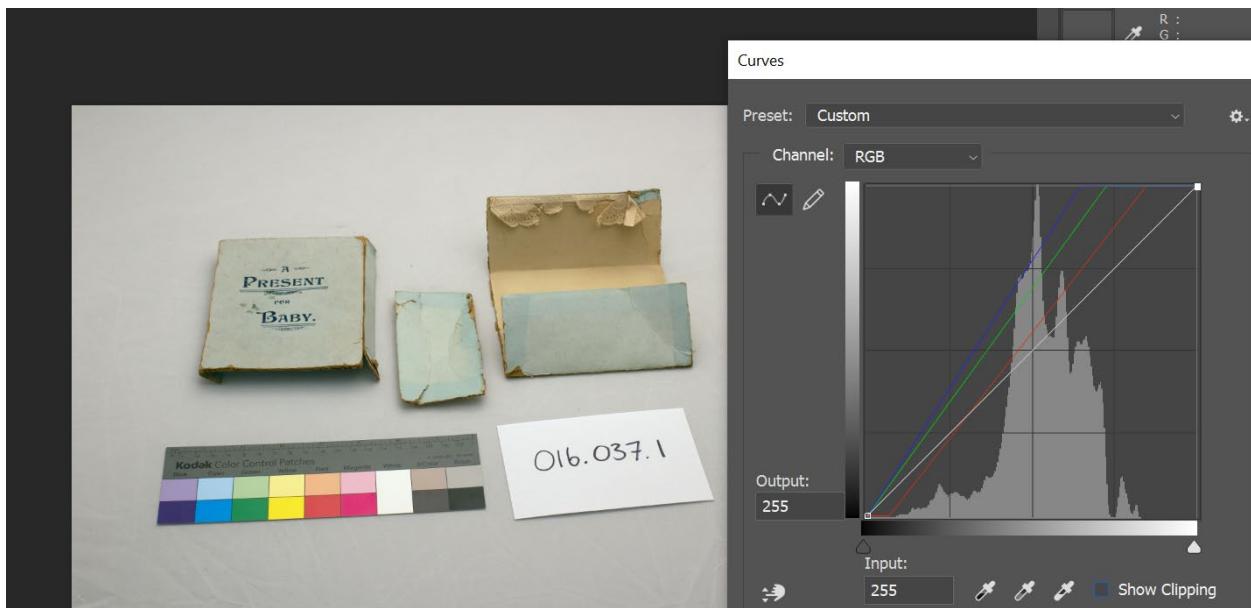
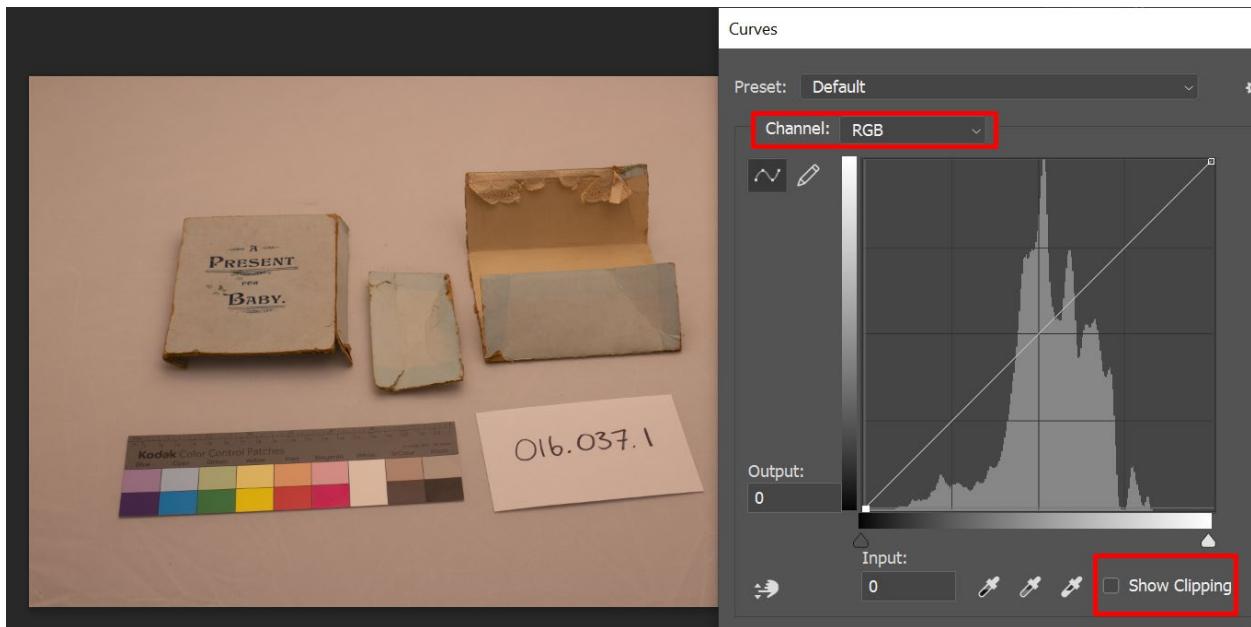
White (far left patch)	Gray (third from right)	Black (far right patch)
R 242	R 122	R 53
G 241	G 121	G 53
B 236	B 120	B 53

If the target values do not match, select the eyedropper tool on the *Tools* palette on the left side of the screen. Use the CTRL or CMD key and click the gray patch on the target to set a point on the histogram. Hover over the target and use the arrow key on the keyboard to bring the value up or down. The *Info* panel in the top right corner of the screen will show the original RGB value and the adjusted RGB value, e.g., 48/50 where 48 is the original value. Continue adjusting until the target values match the values in the chart. Follow the same steps to adjust the RGB values for white and black.



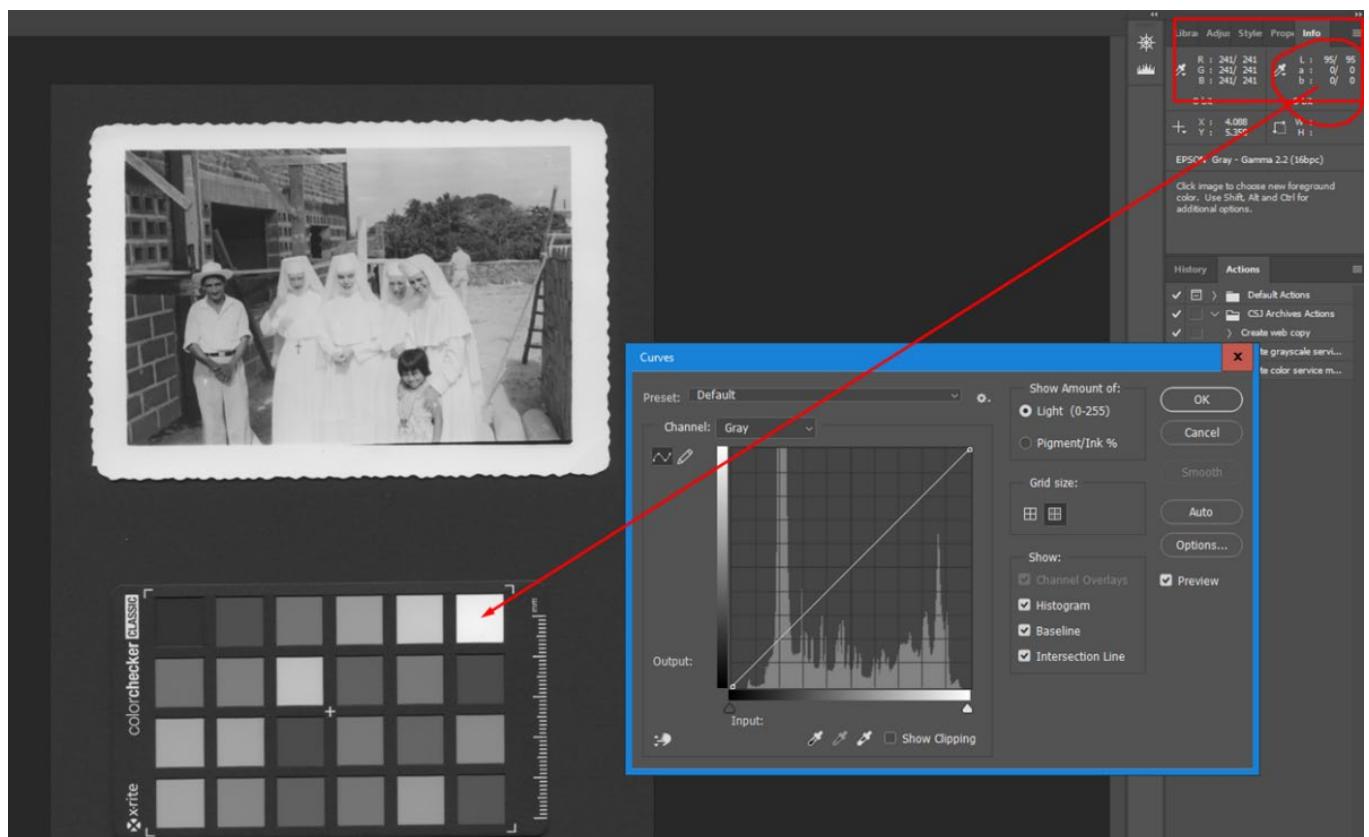
20. Another way to correct color images is to choose the eyedropper tool from the toolbar and choose the option *Sample Size: 5 by 5 average*. With the eyedropper tool, mouse over a white or neutral gray area of the image, and shift and click to create a sample. Check the RGB color values of the sample in the *Info* panel. For true white or neutral gray, the RGB values should be close. Click on the line in the histogram and drag it down, checking the sample values in the *Info* panel. The first value is the original value, and the second is the changed value. Keep dragging until the R value matches the G value. Check the blue channel and increase or decrease. Then click *OK*. Check the image to make sure it looks correct.

21. You can also correct tone and contrast in color images. First, check the *Show Clipping* box. Then use the sliders on the histogram in each channel starting with red, then green, then blue. Select *RGB* to see the result. If you want the image to be brighter, drag the white line in the histogram up from the center.



22. For grayscale images, use the L*a*b* values given in Table 3 below.

Adjust the middle gray first. Choose the eyedropper tool on the *Tools* palette on the side. Use the CTRL or CMD key and click to put an adjustment point on the curve in the center of the grid. Using the eyedropper tool, hover over the part of the image that you think should be middle gray. Use the arrow keys to increase or decrease the value so that the L* value in the Info panel reads 45-55. Then adjust the shadows (black) and highlights (white) by putting adjustment points on the left and right sides of the curve and using the arrow keys to set values as per the L*Ab* chart. The curve should have an “S” shape.



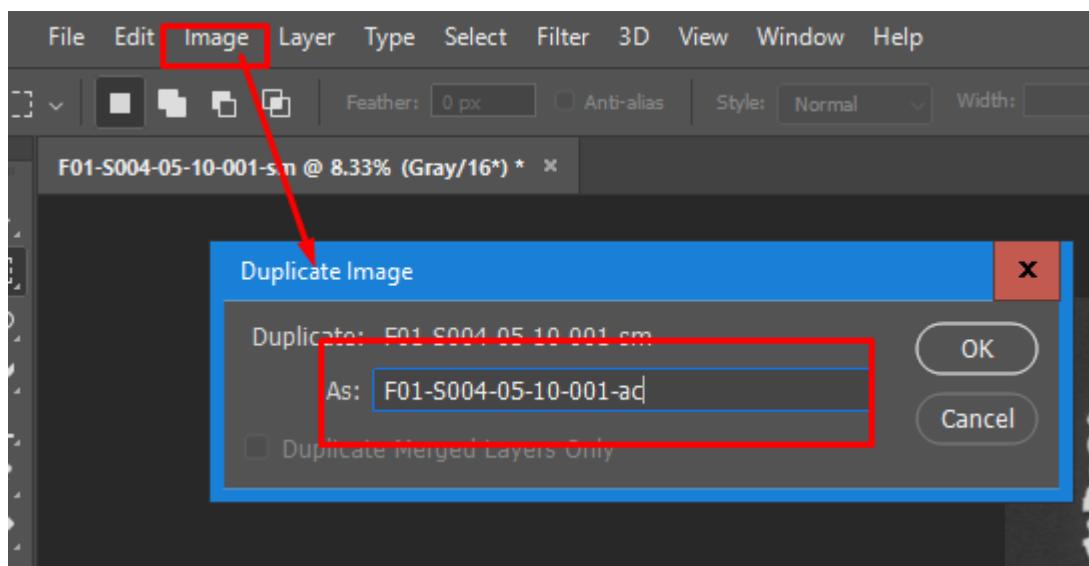
FADGI guidelines state that the darkest part of the image should be no darker than L* 5 and the lightest part no brighter than L* 91-101.

Table 3 L*a*b* values for black and white images

Lightness	Texture range	Description
0-9		Pure black
9-18		Near black, with slight tonality but no texture
18-27	<input checked="" type="checkbox"/>	Textured black; the darkest part of the image in which slight detail is recorded
27-36	<input checked="" type="checkbox"/>	Average dark materials and low values showing adequate texture
36-45	<input checked="" type="checkbox"/>	Average dark foliage, dark stone, or landscape shadows
45-55	<input checked="" type="checkbox"/>	Middle gray, clear north sky, dark skin, average weathered wood.
55-64	<input checked="" type="checkbox"/>	Average Caucasian skin, light stone, shadows on snow in sunlit landscapes
64-73	<input checked="" type="checkbox"/>	Very light skin, shadows in snow with acute side lighting
73-82	<input checked="" type="checkbox"/>	Lightest tone with texture, textured snow
82-91		Slight tone without texture, glaring snow
91-100		Pure white, light sources and specular reflections

23. To correct tone and contrast on images, check the *Light (0-255)* radio button and check the *Show Clipping* box. Then move the slider on the left side of the histogram until you see clipping. (Check for dots on the background of the image but ignore the borders if these show clipping). Then move the slider slightly back until there is no clipping. Do the same with the slider on the right side of the histogram. Then uncheck the *Show Clipping* box and uncheck the *Preview* box to see the image before your changes. Check the *Preview* box to see the image after your changes.
24. To add contrast, make the histogram curve into an S-curve by clicking on it to add a point for highlights and pulling it up and left. This will make the input value a higher output value and the image will lighten. Then add a point for darks and pull it down and right. This will make the input value a lower output value and the image will darken.
25. Rotate to portrait from landscape if necessary and crop out the color target in print photos. If the image is not straight, you can:
 - a. Go to the ruler tool from the *Tool* window by pressing the bottom right corner of eyedropper tool and choosing ruler tool.
 - b. Click and drag from the bottom right horizontal corner of the image to the bottom left horizontal corner, drawing a horizontal line.
 - c. Click the *Straighten Layer* button at the top, in the options bar.

26. Go to *Window* > *Actions* >CSJ Archives Actions >Create service master and click on it. Press the *Play* button. This will run through all the actions required to produce a service master image file and save it in the appropriate folder.
27. Open the service master and go to *Image* > *Duplicate* and rename the copy with the suffix *-ac*. *Close the service master*. Go to *Window* > *Action* >CSJ Archives Actions > Create access copy and click on it. Press the *Play* button. This will run through all the actions required to produce a compressed JPEG format image file and save it in the appropriate folder.



Section 14: Workflow for slides and negatives

1. Make sure images are arranged and numbered within a fonds, or according to the established numbering system for non-arranged images. See following section on file naming conventions (also Section 6).
2. Create and name folders in which images will be stored on the drive.
3. View slides on a 5000K light box. Place the slides on the lightbox emulsion side up. When slides are arranged, number them on the base side.

Slides are labelled *on the top of the base side* of the cardboard or plastic frame using a Stabilo pencil. **Note:** It can be hard to tell the base and emulsion sides apart. These tips may help:

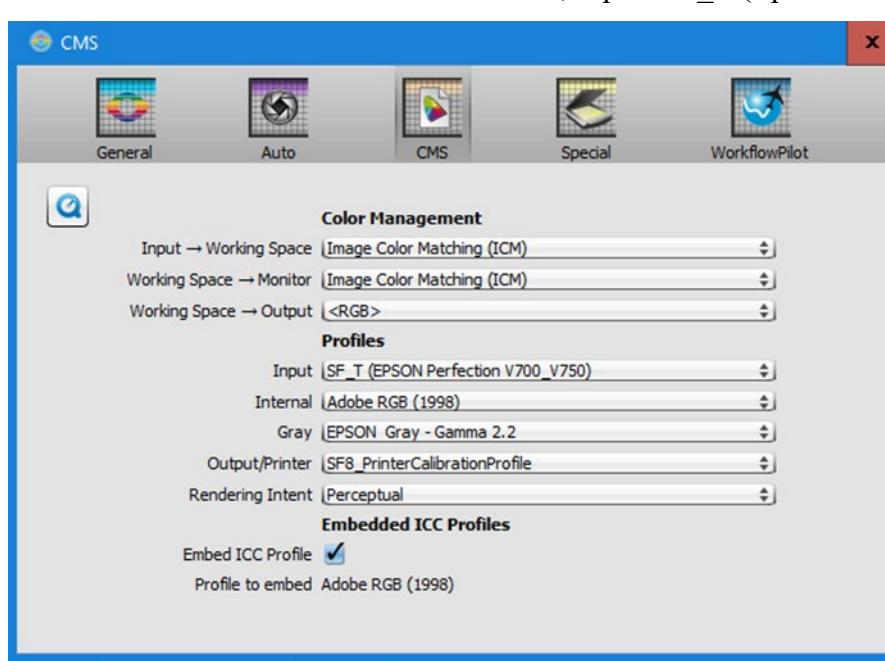
- a. Base side: shiny, images and words are not reversed in image.
- b. Emulsion side: dull, image in relief, images and words appear backward in image, curls, says “this side toward screen”, says “Kodachrome Transparency.”

4. **For slides**, remove the white document mat on the inside lid of the printer by gently sliding the mat up and off. Use the slide holder and carefully put one slide into each slot, base (numbered) side facing down. Put the slides in the slide holder in this order with the white arrows facing up on the right side:

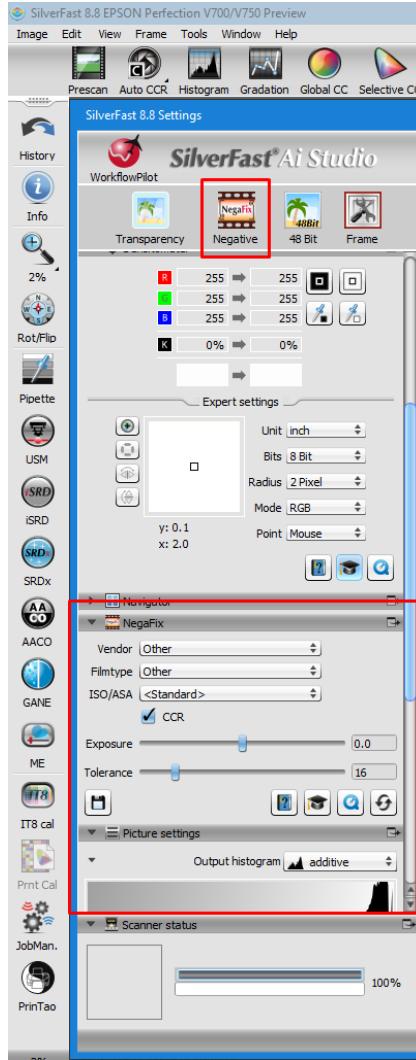
009	005	001
010	006	002
011	007	003
012	008	004

5. For negatives, the top of the film should give the name of the manufacturer, the film type, and ISO/ASA. Remove the white document mat. Place the negatives into the negative holder with the shiny base side down. Images and words should appear backwards on the side that faces up. The white arrows on the negative holder will match the arrows on the scanner bed.

6. Open **SilverFast** software and press *Start* button. Set color management. For slides, under *Edit > Preferences > CMS > Profiles*, Input=SF_T (Epson Perfection V700).

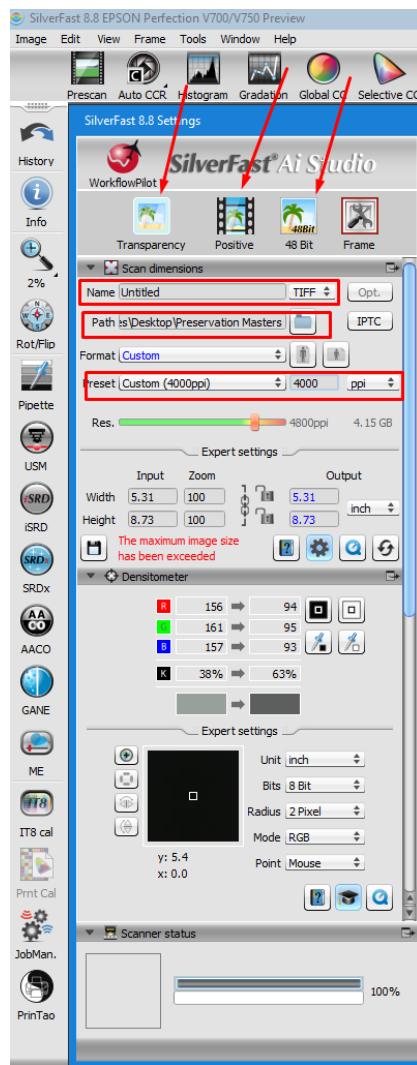


7. With **SilverFast**, when you select *Negative*, the *NegaFix* option is enabled. Enter the manufacturer, film type and ISO/ASA. If you don't know, choose *Manufacturer* = other; *Film Type* = other; *ISO/ASA* = standard.

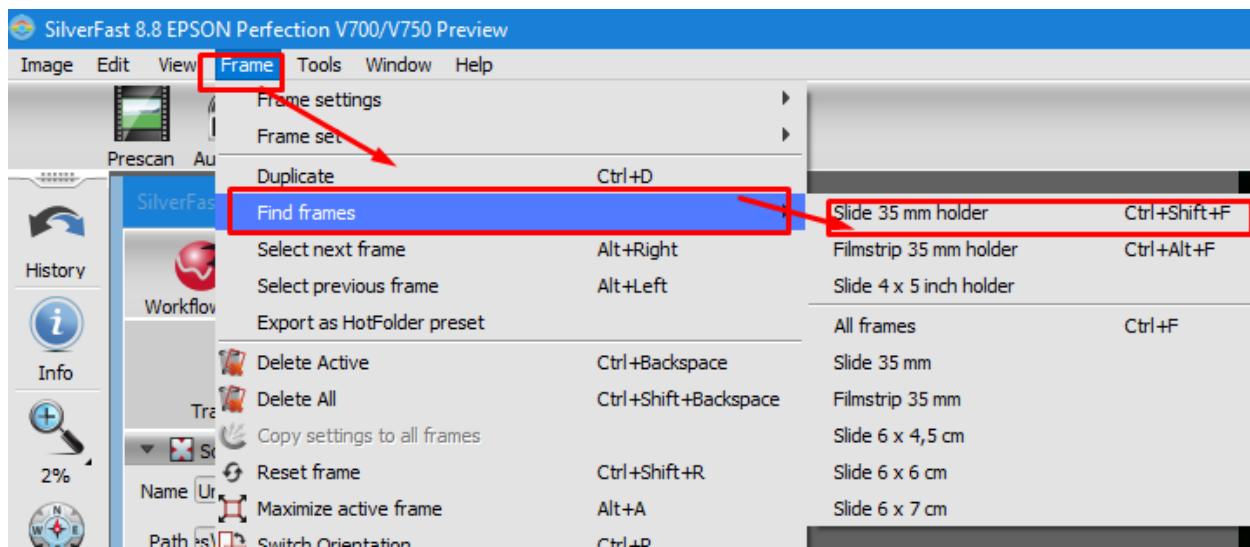


8. Open **SilverFast** and set preferences for color management under *Edit > CMS > Profiles* and under the palm tree icon buttons, select *Transparency, Positive or Negative*, and *48-bit color* for color images and *16-bit grayscale* for black and white images. (Do not select the HDR options.)

9. Allow the software to assign name “Image 1”, etc. Select *TIFF*. Under *Path*, choose the folder to store the files in. Select *Format > Custom*. For 35 mm slides, set the resolution under *Preset* to 4000 ppi.



10. Choose *Prescan*. Select *Find Frames* > Slide 35 mm holder. Check that slides are correctly oriented and have been scanned base side down. If not, manually fix and redo the *Prescan* and *Find Frames*.

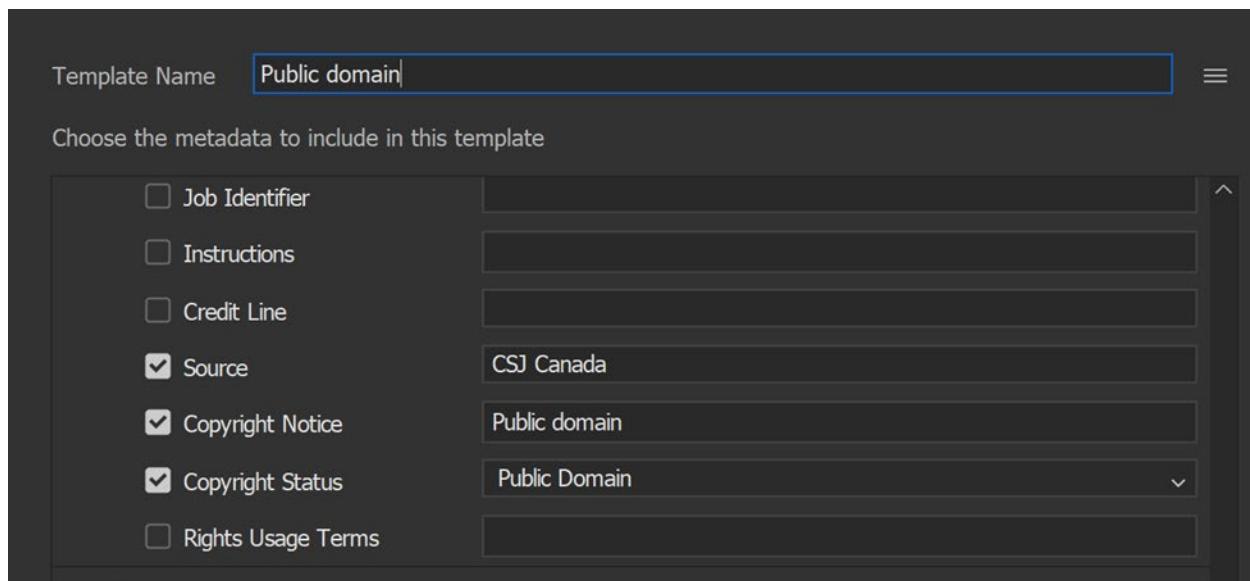


11. Select *Image > Batch Scan*. The software will automatically assign a name which you will change in **Photoshop Bridge**. Choose a folder in which to save the image files. When the scanning is complete, this will be indicated in the bottom of the left side menu.

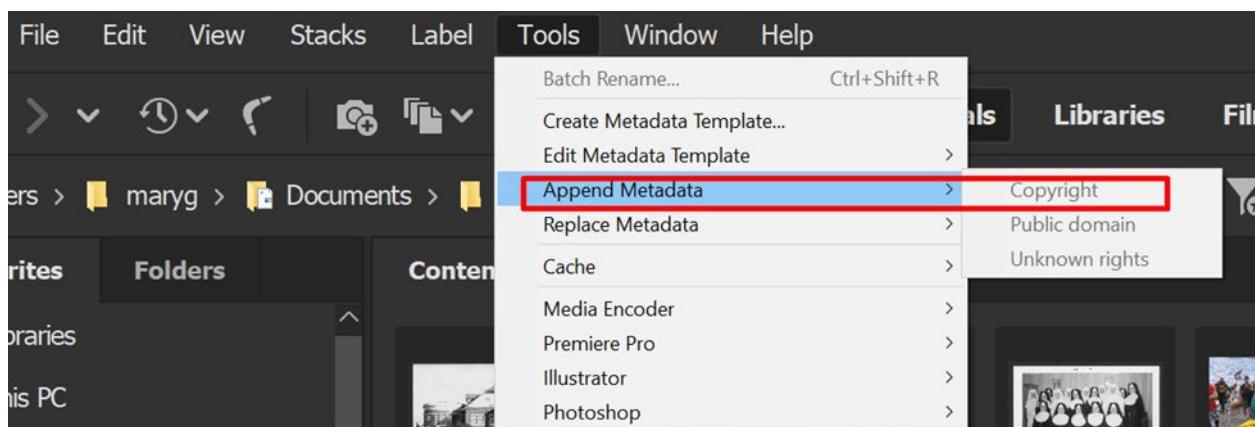
12. Open **Photoshop**. Choose *File > Browse in Bridge*. Open the folder where your preservation masters are stored.

13. You will add metadata to the IPTC fields, (the International Press and Telecommunications Council core metadata schema). Use the spreadsheet where you originally recorded metadata to find metadata to embed in the preservation master. In **Bridge**, go to the IPTC Core fields under the *Metadata* tab. Select the preservation masters that you want to add metadata to, either individually, or in a batch. You can also create a metadata template:
 - a. In **Bridge**, open the *Create Metadata Template* dialog box from the menu bar, then *Tools -> Create Metadata Template*.

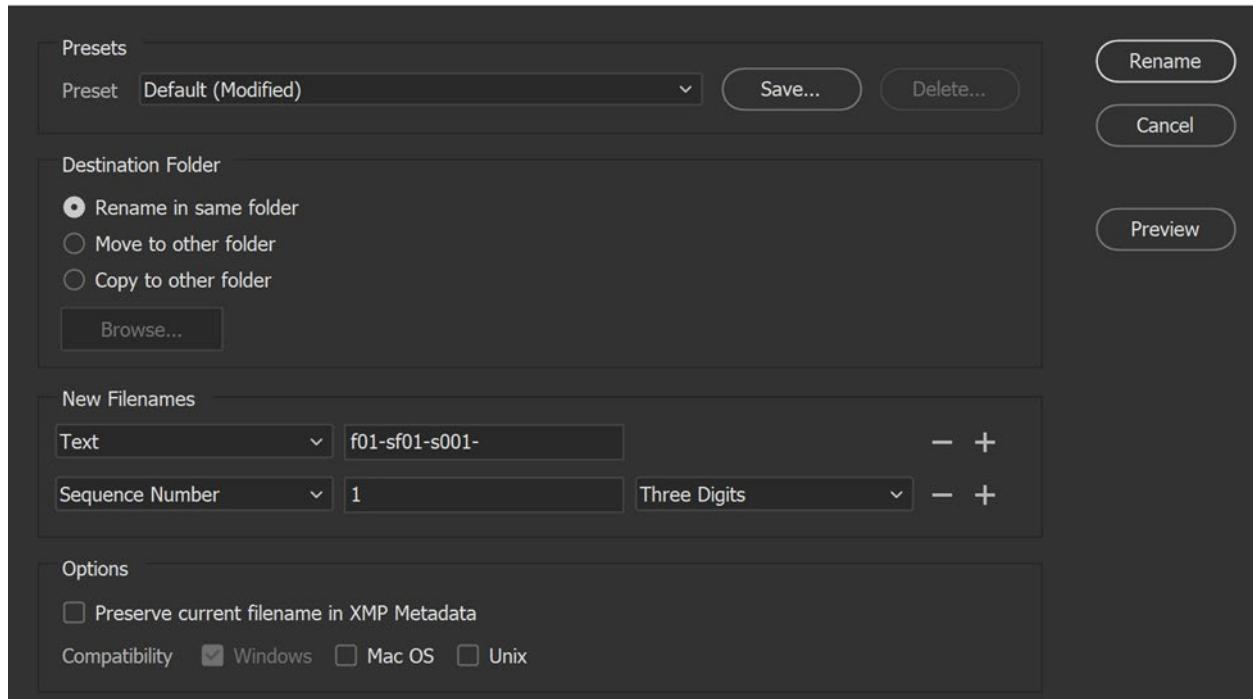
 - b. When you see the *Create Metadata Template* dialog box, check the IPTC Core fields you want to use, and enter metadata. Then click *Save*.



- c. Select the images you want to add metadata to, and then from the menu bar, under *Tools*, choose *Append Metadata* and choose the template.



14. You can batch the filenames in **Bridge**. Select the preservation masters you want to rename. Go to *Tools > Batch Rename*. Make sure the *Rename in Same Folder* radio button is selected. Add text and sequence number, choosing three digits for sequence number. For example, text = f01-sf01-s001- and sequence number = 1, three digits.



Make sure to choose *Preview* to check the new names before clicking the *Rename* button. Once you have set up the renaming sequence, it will automatically begin where you left off for the next batch of images you scan, unless you change the text and sequence number.

15. Open the preservation master in **Photoshop**. Go to *Image > Duplicate* to make a copy of the preservation master. Delete the suffix -pm and change the suffix to -sm. This will ensure that you are editing a copy, not the original, because changes you make will be permanent. Choose *OK*. Close the preservation master. **Note:** The preservation master and service master will share the same Identifier in their metadata but have different affixes in their filenames to differentiate them.

16. . Select *Window > Info*. Select *Image > Adjustments > Curves*.

In *Curves*, you will see a graph dialog box. The upper right area of the graph represents the highlights, and the lower left area represents the shadows. The horizontal axis represents the input levels (original image values), and the vertical axis represents the output levels (adjusted values). You can add more points directly to the curve to adjust areas. Dragging a control point up or down adjusts the brightness, and dragging it left or right adjusts the contrast.

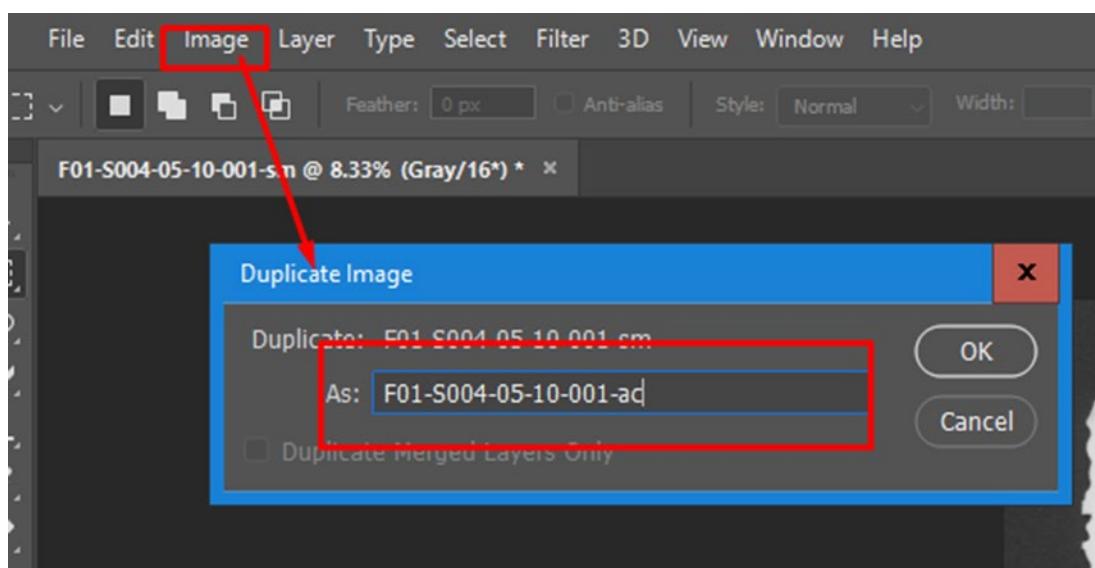
You can check and uncheck the *Show Clipping* box to see if clipping occurs as you work. You can also toggle between the before and after views by checking or unchecking the preview box.

17. Compare the original slide on the light table with the scanned file. If there is a color cast, you may need to adjust using *Curves*.

18. To correct tone and contrast on images, check the *Light (0-255)* radio button and check the *Show Clipping* box. Then move the slider on the left side of the histogram until you see clipping. (Check for dots on the background of the image but ignore the borders if these show clipping). Then move the slider slightly back until there is no clipping. Do the same with the slider on the right side of the histogram. Then uncheck the *Show Clipping* box and uncheck the *Preview* box to see the image before your changes. Check the *Preview* box to see the image after your changes.

19. To add contrast, make the histogram curve into an S-curve by clicking on it to add a point for highlights and pulling it up and left. This will make the input value a higher output value and the image will lighten. Then add a point for darks and pull it down and right. This will make the input value a lower output value and the image will darken.
20. You can also correct tone and contrast in color images. First, check the *Show Clipping* box. Then use the sliders on the histogram in each channel starting with red, then green, then blue. Select *RGB* to see the result. If you want the image to be brighter, drag the white line in the histogram up from the center.
21. Rotate to portrait from landscape if necessary and crop out the color target in print photos. If the image is not straight, you can:
 - a. Go to the ruler tool from the *Tool* window by pressing the bottom right corner of eyedropper tool and choosing ruler tool.
 - b. Click and drag from the bottom right horizontal corner of the image to the bottom left horizontal corner, drawing a horizontal line.
 - c. Click the *Straighten Layer* button at the top, in the options bar.

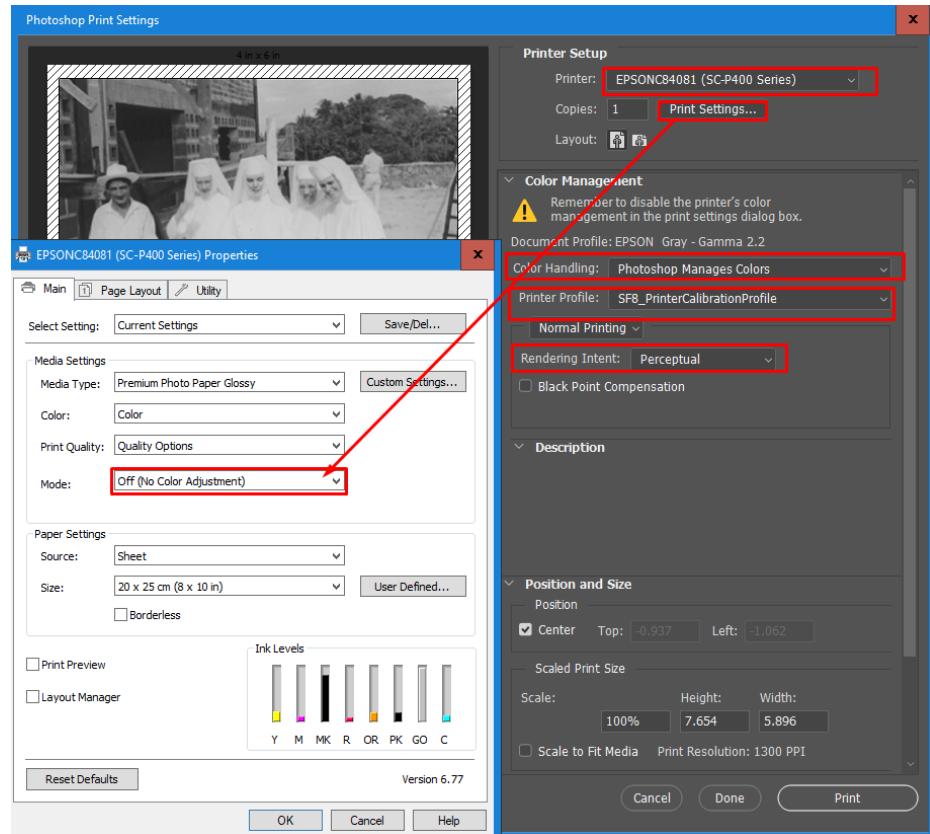
22. Go to *Window* > *Actions* >CSJ Archives Actions >Create service master and click on it. Press the *Play* button. This will run through all the actions required to produce a service master image file and save it in the appropriate folder.
23. Open the service master and go to *Image* > *Duplicate* and rename the copy with the suffix *-ac*. *Close the service master*. Go to *Window* > *Action* >CSJ Archives Actions > Create access copy and click on it. Press the *Play* button. This will run through all the actions required to produce a compressed JPEG format image file and save it in the appropriate folder.



Section 15 Printing photographs

1. When you are ready to print, Open **Photoshop**. Choose *Image > Image Size*. Make sure that all three boxes at the bottom are checked: *Scale Styles*, *Constrain Proportions*, and *Resample Image*.
2. Change the *Document Size* to the appropriate size you want to print to in inches or cm or mm. The *Resolution* should be a minimum of 72 pixels/inch, but ideally for print you would want to use 300 pixels/inch.
3. Change the very bottom dropdown choice to: *Bicubic Sharper* (best for reductions) if you are making the image (and file size) smaller.
4. You shouldn't be enlarging, but if you are, choose *Bicubic Smoother* (best for enlargement), if you are making the image (and file size) larger.
5. Click *OK*. If you are happy with the size and quality of the resulting image, choose the *Save As* option from the menu bar *File > Save As*.
6. Next, choose *File > Print*.>Printer setup>Print settings and choose paper size.
7. Select:
Printer = Epson C84081 (SC-P400 series)
Color Handling = Photoshop Manages Colors
Color Profile = SF8_PrinterCalibrationProfile
Rendering Intent = Perceptual

8. Click *Print Settings* and you will be inside the printer dialog box where options are provided by the printer driver and not **Photoshop**. Under *Paper Settings > Size*, choose *Photo Series* from the drop-down menu and select the photo size. Under *Page Layout* choose portrait or landscape. Under *Media Settings*, make sure *Mode = Off (No Color Adjustment)*.



9. To figure out the print size from the resolution, you divide the scan resolution by the print resolution. For example, if a scan has a resolution of 4,800 ppi x 6,000 ppi and the printer requires 300 dpi:

$$4,800 / 300 \text{ (dpi)} \times 6,000 / 300 \text{ (dpi)} = 16 \times 20\text{-inch print at 300 dpi.}$$

Section 16: Instructions for making a PDF/A

PDF/A is the preservation standard for digital text based on PDF 1.4. Everything that is needed to view the file is contained within the file and it can be viewed without specific hardware or software in the future. It complies with ISO 32000-1. Metadata like title, author, creation date, modification date, subject, keywords, can be stored in a PDF/A file. PDF/A-1 files must contain embedded fonts, device independent color and XMP metadata. They may not be encrypted, have embedded files, JavaScript, LZW compression, multi-media, PDF transparency or external content references. Microsoft Word, PowerPoint, and PDF files may all be converted to PDF/A format.

There are several versions of PDF/A each of which supports all the features of the earlier version and includes more features. Each version has different conformance levels. For example, PDF/A-1a preserves the logical structure of the file and Unicode mapping, while PDF/A-1b does not, but is easier to produce. The first version, PDF/A-1, is the most basic version compared to PDF/A-2 and PDF/A-3. It requires that transparency is removed, and layers flattened to create a PDF/A since these features are not found in PDF 1.4. A PDF/A created from a digital text document will have searchable text. If creating a PDF/A from a scanned document, the PDF/A-1b format must be used with OCR. You can create a PDF/A from within a Microsoft Word file, but only PDF/A-1b. Verify that the PDF/A conforms to the standard by running **Vera PDF** software.

To add metadata to a PDF, select File > Properties > Description (and) Additional Metadata. The current PDF/A fields under Properties that match Dublin Core are all required fields:

PDF/A	Dublin Core
Document Title	Title
Description	Description
Author	Creator
Copyright Notice	Rights
Keywords	Subject
Application/PDF (system created)	Format
Created (system created)	Date.Created
Modified (system created)	Date.Modified

Section 17: Digitizing audio

Digital audio is a format in which acoustic sound waves are converted into digital signals that can be read by a machine. There is a wrapper, which is the format specified by the file extension, and an encoding method or codec. Digital audio should be sampled 96 KHz and 24-bits. Number of samples per second is measured in Hz. With digital audio files, the bit depth is the dynamic range. The higher the bit depth, the more data. Doubling the bit depth results doubling the file size. A 16-bit file is 65,536 possible values. A 24-bit file is 16.7 million possible values.

What about size and duration? For uncompressed audio, a file that is 1 GB at 24-bits/96 kHz (WAV format) is 1.01 hours in duration. A file that is 2 GB at 24-bits/96 kHz (WAV format) is 2.02 hours in duration. For compressed audio, a file that is 1 GB at 256 kb/s (MP3 format) is 8 hours in duration. A file that is 2 GB at 256 kb/s is 17 hours in duration. What about storage? One archival gold CD-R holds 700 MB. One Zoom H2N recorder digital file holds 2048 MB (2 GB).

Standards for audio

	Preservation and Service Master	Version	Access and Screen Copy
File format	WAV (Waveform Audio File Format) or BWF (Broadcast Wave Format)	BWF Vers. 0, 1 and 2	MP3 (MPEG Audio Layer III)
Sample rate	96 kHz		48 kHz
Bit depth	24-bit		16-bit
Codecs (encoding method)	LPCM (Linear Pulse Code Modulated Audio)		MP3enc or Lame

Gathering information for audio digitization

You will likely digitize audio cassettes, which are magnetic coating on 1/8" plastic film in a plastic container. Most cassettes have four stereo tracks with the recording time indicated, e.g., C-60 which is 30 minutes per side. There are four types of magnetic coating: Type I (Normal), Type II (Chromium Dioxide), Type IV (Metal), and Type III (FeCr).¹¹

In the photo below, the cassette at the top with write-protect notches covered by tabs is Type I. The cassette below it with additional notches next to the write-protect tabs, is Type II. The bottom two cassettes, which have Type II notches plus an additional pair of notches in the center, are Type IV. The tabs on the bottom tape have been removed so the tape is write-protected.



The manufacturer is listed on the cassette case. The total capacity is given as run times, usually C46 (23 min. per side), C60 (30 min. per side), C90 (45 min. per side), and C120 (60 min. per side). Tapes with longer running times are more prone to breakage because the tape is thinner.

¹¹ The discussion on digitizing audio cassettes is based on the information provided in Irving K. Barber Learning Center, 'Indigitization,' <http://www.indigitization.ca/indigitization-toolkit/audio-digitization/audio-cassette-tape/planning-before-starting-an-audio-cassette-digitization-project/>

Photo and summary by Lgreen-commonswiki
https://commons.wikimedia.org/wiki/File:Cassette_Write_Protect_IV.jpg

Record metadata in the *Digitization Log*, which is a spreadsheet. The information to record on the spreadsheet in advance of digitizing is shown below, with required Dublin Core fields marked **:

Digitization date – indicate date digitization takes place. With Excel, you will need to use spaces between year, month, day to keep ISO format.

****Identifier** – e.g., M25.

****Title** – give information from cassette label.

Description-give further information about cassette from label.

****Creator**-give name of interviewee.

****Rights**-note if there are consent forms and copyright permissions on file.

****Date**-give date of recording or date range.

Subject-give keywords.

Extent – indicate actual recorded time, not cassette capacity, e.g., 1:40:10.

Original form of material-indicate analogue format including tape type (I, II, III or IV), manufacturer, tape run time capacity (C46, C60, C90, or C120).

Format – give digital file format.

Coding history-give sample rate and bit depth and hardware and software used.

Locator-give storage location.

Type-indicate “sound” for audio recordings.

Comments – note if this is a music or voice recording, specific event, autobiography, oral history, religious service, meeting, etc. Later, as you digitize the audio, you will be listening to it, and can record additional notes in the Comments section.

Condition assessment

1. Use the *Condition Report* for doing a condition assessment. Record all findings in the form, as well as any repairs/cleaning undertaken. See an example of the *Condition Report* at the end of this section.
2. Look for signs of mold, pests, acidity, water damage, and light damage on the storage box and cassette case. *Do not smell or breathe if you suspect mold or pest droppings* as airborne contaminants can be harmful to your health. If problems are found, quarantine the container and its contents in a ziplock bag away from other materials.
3. Look at the audiocassette. Note any damage to the hard shell-like cracks or missing pieces. Look for signs of mold, pests, water damage, and light damage. Only if you do not find any signs of mold or pests, carefully fan the air surrounding the cassette towards your nose and note any smell which may indicate chemical breakdown.
4. Look at the opening along the bottom of the cassette. There should be a small piece of felt attached to a tiny metal plate which supports the tape where it meets the playback head. Note its condition and if it may need to be replaced.
5. Next, examine the tape. Take care doing this because the tape might be damaged and break if handled too aggressively. If the tape breaks or is already broken, see the splicing instructions section. Some cassette cases are clear and damage to the tape may be visible, but it is a good idea to wind a section of the tape using a pencil in one of the reels and watch for signs of damage through the opening at the bottom. For types of damage to look for, see Table 4. Badly damaged sections (because of pest damage, for example) can be removed by cutting to clear edges and then splicing, but creases and folds should be left alone.

6. Determine if the tape is playable. If it is playable, proceed to the next section. If not, set the cassette aside for later treatment. Record in the *Condition Report* when any restorative steps are taken.

7. Break out write-protect tabs at the top of the cassette to prevent erasing.

Audio Cassette Condition Report

Assessment Date: _____

Identifier: _____

Inspection Results:

- Mold present
- Pests present
- Odor present
- Oxide flaking
- Particulates (dust, debris)
- Foam pad damage
- Tape is bent, wrinkled, creased, folded (cinching, cupping)
- Loose tension
- Previous repairs
- Other, specify under Notes

Preservation work undertaken:

- Proceeded with digitization
- Did not digitize. Isolated in polyethylene bag for conservation or deaccessioning.
- Spliced damaged area (removed no more than 12 inches of tape)
- Adjusted foam pad
- Wound to fix tension
- Removed paper, cardboard and applied label to case

Notes:

(Note how much tape was removed by splicing in this section.)

Table 4 Signs of damage

TYPE OF DAMAGE	SIGNS
Mold	-Fuzzy or hairlike growth -Variety of colors -Inside of cases and edges of tape are common areas
Pests	-Living pests or corpses -Droppings -Urine stains -Tracks -Gnawing damage
Chemical Breakdown	-Waxy, dirty socks, or pungent odor
Foreign Particles	-Dust or other small, foreign objects in the case
Oxide Flaking	-Particles of emulsion in the case -Particles of emulsion coming off the base (tape)
Cinching	-Wrinkles and folds in tape - “Accordion-like” folding in severe cases
Cupping	- U-shaped curving of tape
Creases	-Creases in the tape
Edge Damage	-Tape edges are distorted or damaged
Stretching	-Width- and/ or length-ways stretching of tape
Breakage	-Tape is cut or part of the tape is missing
Gapping/ “Windowing”	-Tension is loose and gaps appear in reels

Look carefully for signs of damage. Consider if cassette is too damaged to play or too dangerous to handle.

Section 18: Workflow for audio digitization

General workflow for audio digitization

Run a checksum initially, so that this can be used later to check on the integrity of the audio file. Digitize the audio cassette and give it the suffix “-pm,” for example M54-a-pm. This is the raw digitized WAV file which will not be edited. Make a copy of this file to work on, and delete the suffix “-pm,” but add the suffix “-sm,” for example M54-a-sm. (**Note:** side 1 is given the suffix “-A” and side 2 is given the suffix “-B.” For example, M54-a-sm; M54-b-sm.) Edit this copy using **Audacity** and save it as a WAV file. Make an access copy from the working copy and save it as an MP3 file. See the section on recording for a detailed workflow.

File naming

(For the original digitized file – the preservation master)	filename-pm.wav
---	-----------------

Preservation master side one	filename-a-pm.wav
------------------------------	-------------------

Preservation master side two	filename-b-pm.wav
------------------------------	-------------------

The suffix -pm will tell you which file is the original scan, also known as the preservation master. This file has no editing done to it. Editing is done to the service master, which is saved with the suffix “sm.” Access copies have the suffix “ac.”

(For the service master)	filename-sm.wav
--------------------------	-----------------

Service master side one	filename-a-sm.wav
-------------------------	-------------------

Service master side two	filename-b-sm.wav
-------------------------	-------------------

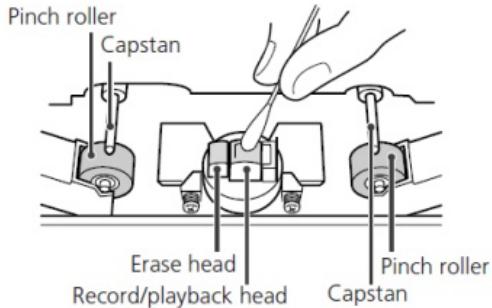
(For access copies)	filename-ac.mp3
---------------------	-----------------

Access copy side one	filename-a-ac.mp3
----------------------	-------------------

Access copy	side two	filename-b-ac.mp3
-------------	----------	-------------------

Preparing playback equipment

1. **CHECK EQUIPMENT.** Make sure the playback head (located toward the front of the playback deck, next to the buttons) on the playback device is clean (metal knob which reads the signal). If there are dark spots present, gently wipe them away with isopropyl alcohol on a cotton swab. If the head remains dirty, the stains may have been caused by a damaged tape and cannot be wiped away using this method. Follow these steps:
 - a) Wet cotton swab with alcohol and rub the top of the central play head. Clean between the two tape guides that stick up on one side of the head.
 - b) Clean the capstan (rotating spindles that move tape) with the cassette door open.
 - c) Clean the top of any other tape guide.
 - d) Set to “Play” and clean the rubber pinch roller. Only touch the roller on the side furthest away from the heads, otherwise the deck will tear up the cotton swab. It may take several cleanings before brown deposits are removed.
 - e) Use a blower to remove lint.
 - f) Let tape deck sit to allow alcohol to evaporate.¹² Close lid when finished.



¹² Audacity, ‘Recording from Cassette,’
http://wiki.audacityteam.org/wiki/Recording_from_Cassette#How_to_Clean_Heads

Image from Indigitization, ‘Digitization Guidelines-Audio Cassette Project Parameters,’
<http://www.indigitization.ca/indigitization-toolkit/audio-digitization/audio-cassette-tape/digitization-guide-audio-cassette/>

Recording

Testing audio

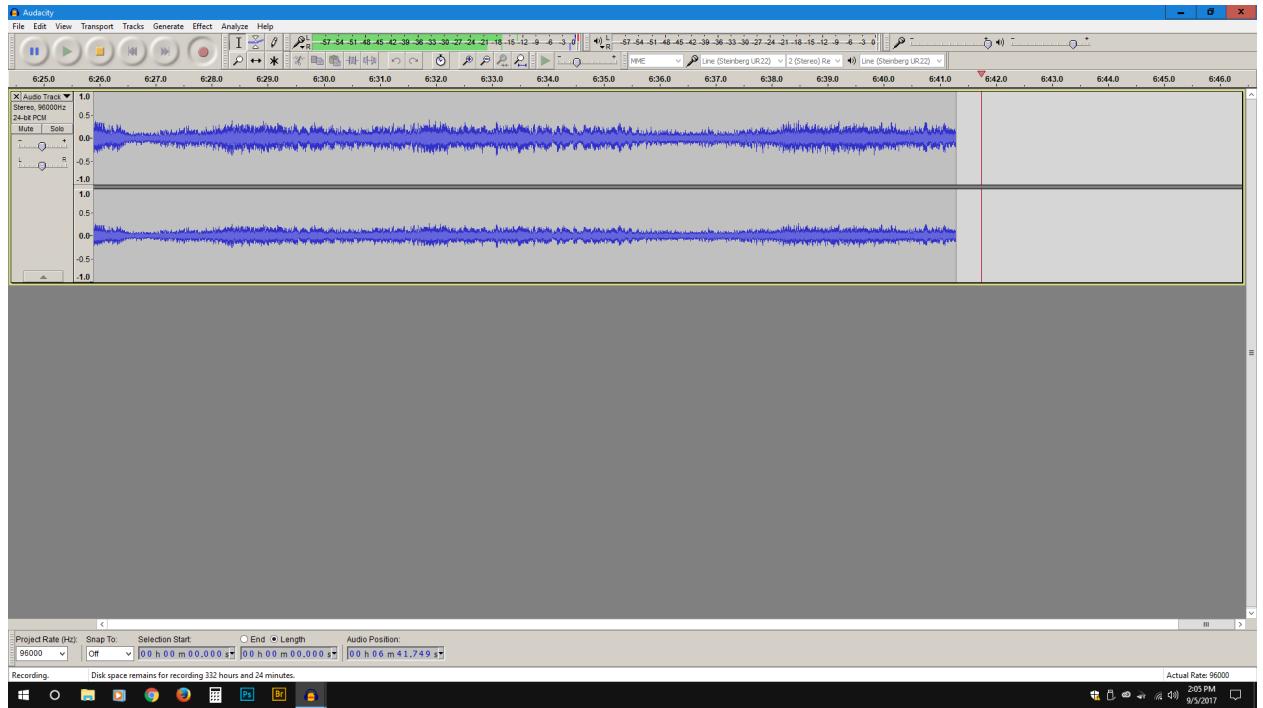
1. **INSERT TAPE.** Turn the cassette reel to take up slack on the cassette before putting into playback machine, with Side A facing up. Close tape deck. Rewind to the beginning of the tape. Put on the headphones and press “Play” on the tape deck. For this step, you do not want to record anything.
2. **SET GAIN.** Turn “GAIN” knobs to the lowest setting to avoid damaging circuitry. Adjust the knobs on the UR22 audio interface so that “MIX” is in the middle between “input” and “DAW.” The “MIX” knob controls how much of the input signal you hear and how much you hear of what the computer (or “digital audio workstation”) is registering. With the “MIX” knob at halfway, half of what you hear comes from each component.
3. **SET VOLUME.** Turn the “PHONES” knob to the lowest level. The “PHONES” knob adjusts the volume of your headphones only and by starting at the lowest level, you can gradually increase volume to a comfortable level.
4. **ADJUST GAIN, LISTEN, NOTE ON LOG.** The playback device should still be powered on.
 - A) Adjust the volume on the playback device and using the “PHONES” knob on the UR22 interface until the audio can be clearly heard.
 - B) While the tape is playing, raise the “GAIN” knobs until the “Peak” indicator light starts flashing, and then gradually lower the knobs in unison again just until the light stops flashing. Make sure the levels for the volume input (gain) are set so the audio does not overmodulate and distort. Levels should never go above 0 and should be between -0.3 and -0.12. The audio can be normalized to -0.3 after the fact, which will bring the peaks to -0.3 and adjust everything accordingly. (Overmodulating is about loudness and pitch.) Sample a few sections of audio by fast forwarding and listening for about 30 seconds.

C) Note in the *Digitization Log* if you find any issues (mechanical noises like grinding or clicking, environmental noises like coughing or traffic, changes in frequency or volume, changes in content like two different interviews on the same recording). Do not make modifications to any equipment or software at this stage, just make observations. In the case that you cannot hear anything, sample a different section of the tape, and see if there is audio. If you cannot hear any audio on the tape, make sure the equipment is set up correctly. If the tape still does not work, there is a chance the tape has been erased or was never recorded on. Note this in the *Digitization Log*.

5. **REWIND.** When you're finished, rewind the cassette to the very beginning, including any silence before the recording begins.

Using Audacity software

1. **RECORD USING AUDACITY.** Go to the **Audacity** window. Select “File” > “New” to create a new file.
2. Press the “Record” button in **Audacity** and after 2-3 seconds, press “Play” on the tape deck. (This will give you some extra space in case the audio starts immediately.) A new track will appear. You will start to see a cursor move across the screen and create a blue waveform that represents the audio being captured by **Audacity**. If you do not see this waveform, **Audacity** is not receiving a signal or recording and therefore an audio file is not being created. Unless the audio is of very high quality, there should be some mechanical noise registered which will show up on the waveform, even during apparent silences.



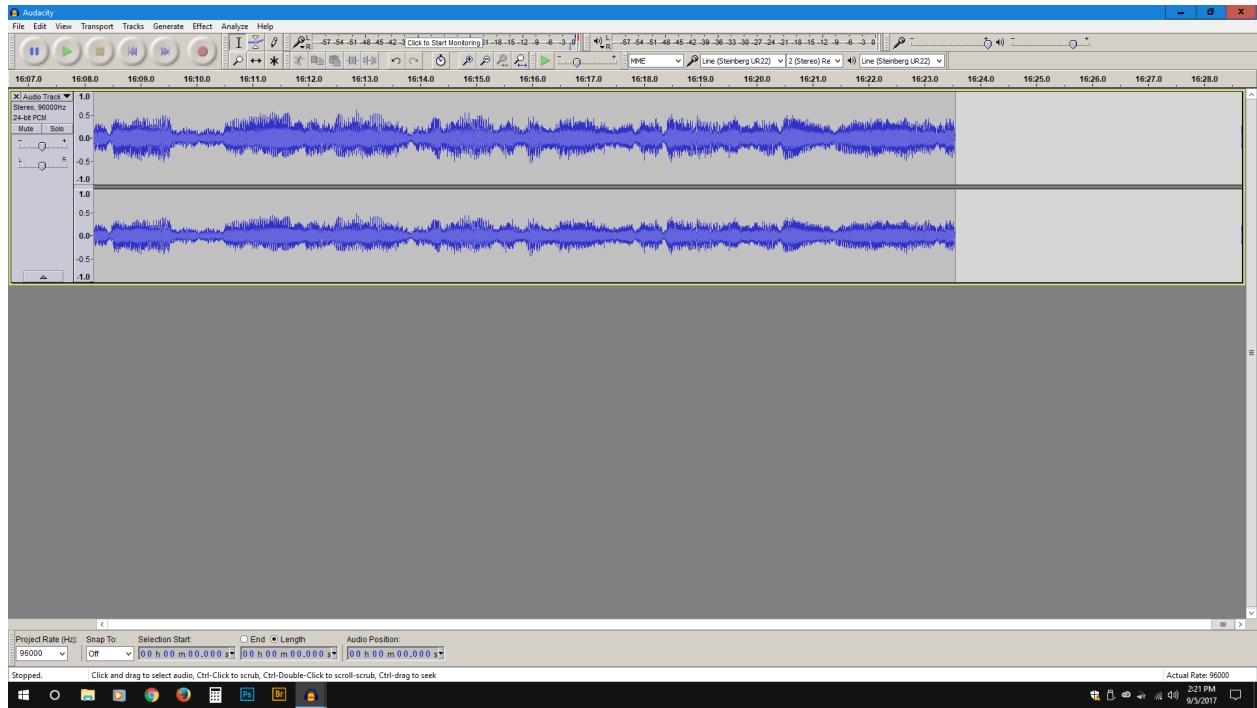
3. If the tape starts squealing or the audio becomes very fuzzy, this may indicate sticky shed syndrome. Stop recording to avoid damaging the tape.

4. **LISTEN AND NOTE ON LOG.** Listen to the entire recording in real time as it is recording and describe any anomalies in the *Digitization Log*, for example tape binding on guides, abnormal sounds, change in content of tape from what is on label, large peaks, etc. Watch as the waveform is created. The run time for one side of a cassette typically lasts between 30 and 45 minutes.

5. **NOTE DURATION.** There are two possible ways that the recording might end: either the tape will run out and stop, or the audio ends before the tape runs out. If the tape runs out first, you can immediately stop recording in **Audacity** by pressing the Stop button. If the audio ends, let the tape continue to play through to the end. Make sure to record the duration of recorded audio on the *Digitization Log*. *Do not close Audacity or you will lose the recording.*

6. **MAKE PRESERVATION MASTER: DELETE SILENCE AND NOTE ON LOG.** A)
Scroll to the beginning of the track. Remove silence at the beginning (*not* in the middle of the recording) by clicking and dragging on the waveform 3-5 seconds before the audio content starts. To do this, drag the cursor left to the beginning of the audio window, and press “Delete” on the keyboard. Repeat for silence at the end of the recording by selecting a point 3-5 seconds from the end of the audio, dragging right to the end of the recording, and deleting the section. Next, select the whole track by pressing CTRL/CMD plus A.

B) At the bottom of the screen, make sure that the “selection start” counter shows all zeroes. In the second counter, “end” or “length” should both have the same value.

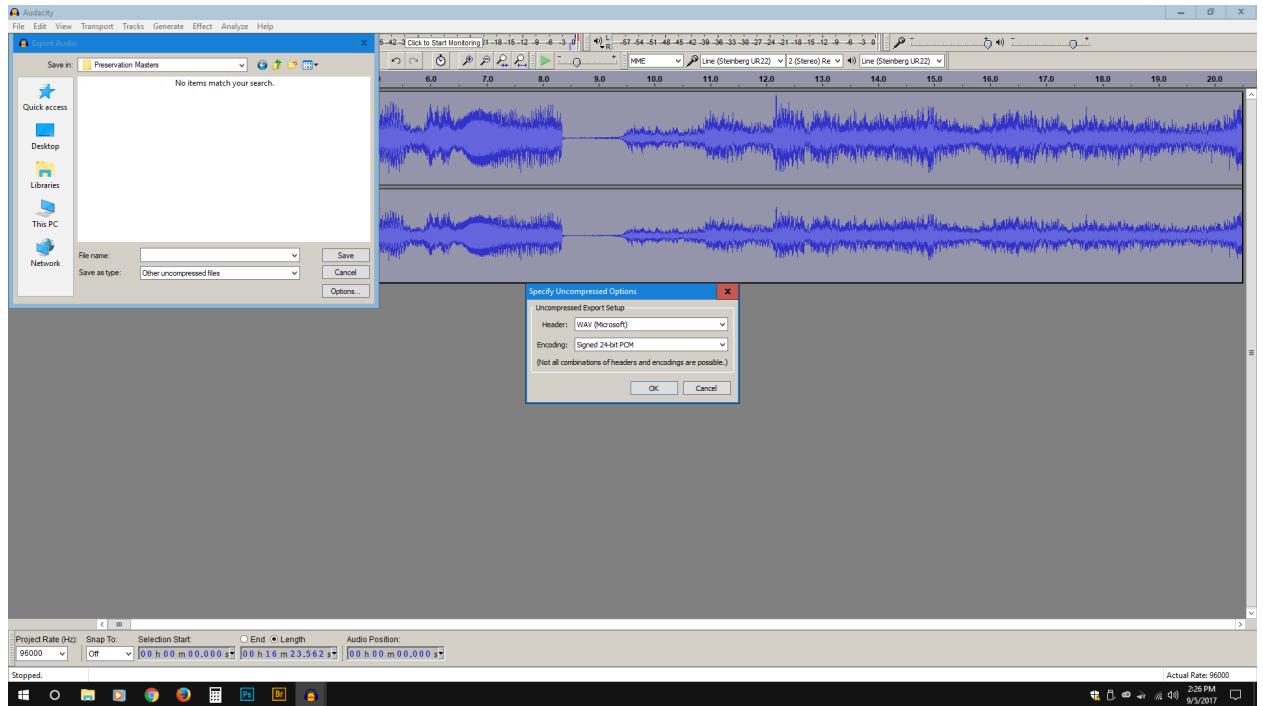


C) Make sure you record the duration of silence that was removed on the *Digitization Log*. Multiply the total minutes by 60 and add the total seconds to this for the original duration. Then multiply the total minutes by 60 and add the total seconds to this for the end/length counter total. Finally, subtract the total given in the end/length counter from the original duration total.

7. **SAVE PRESERVATION MASTER.** A) Choose “File” > “Export Audio” to create to a 24-bit WAV file preservation master by choosing “Other Uncompressed Files” from the dropdown menu under “Save as Type” and then click “Options.”

B) Select “WAV (Microsoft)” as the “Header” and “Signed 24-bit PCM” as the “Encoding” from the new window that opens. Click OK.

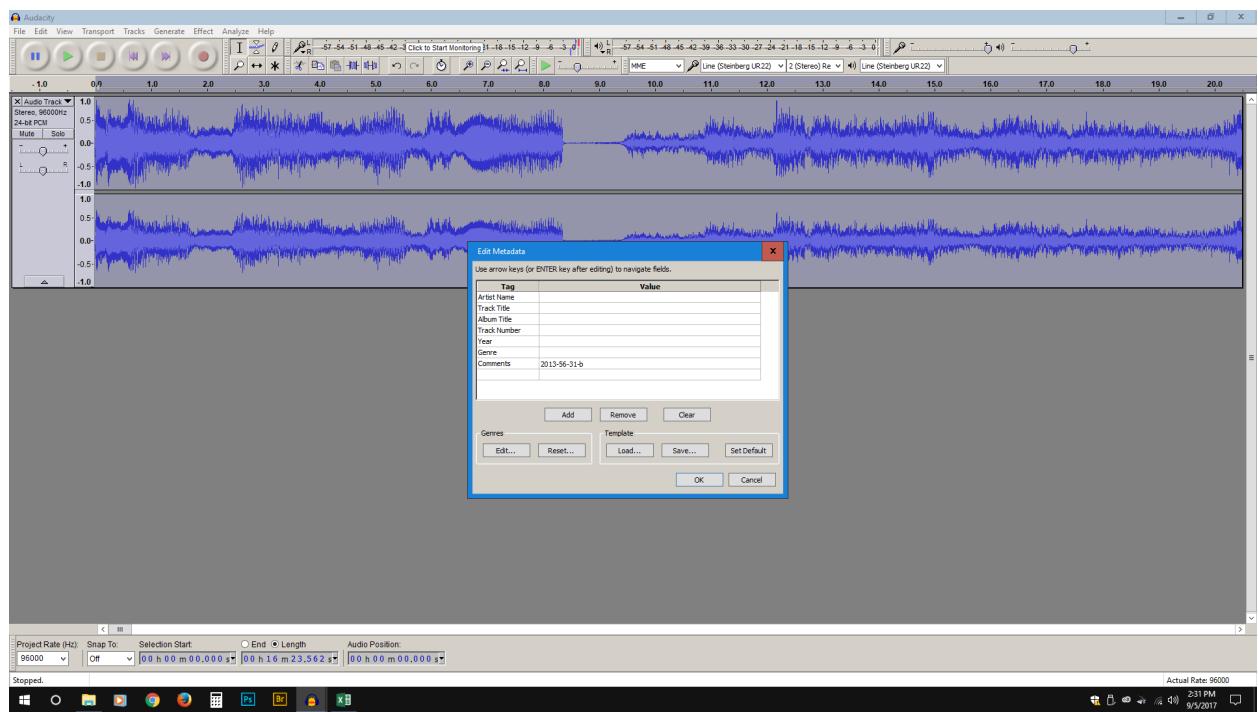
C) Name the file “[file name]-a-pm.wav”. The “A” represents side A of the cassette, and the “-pm” represents that this is the preservation master. Save to a new folder.



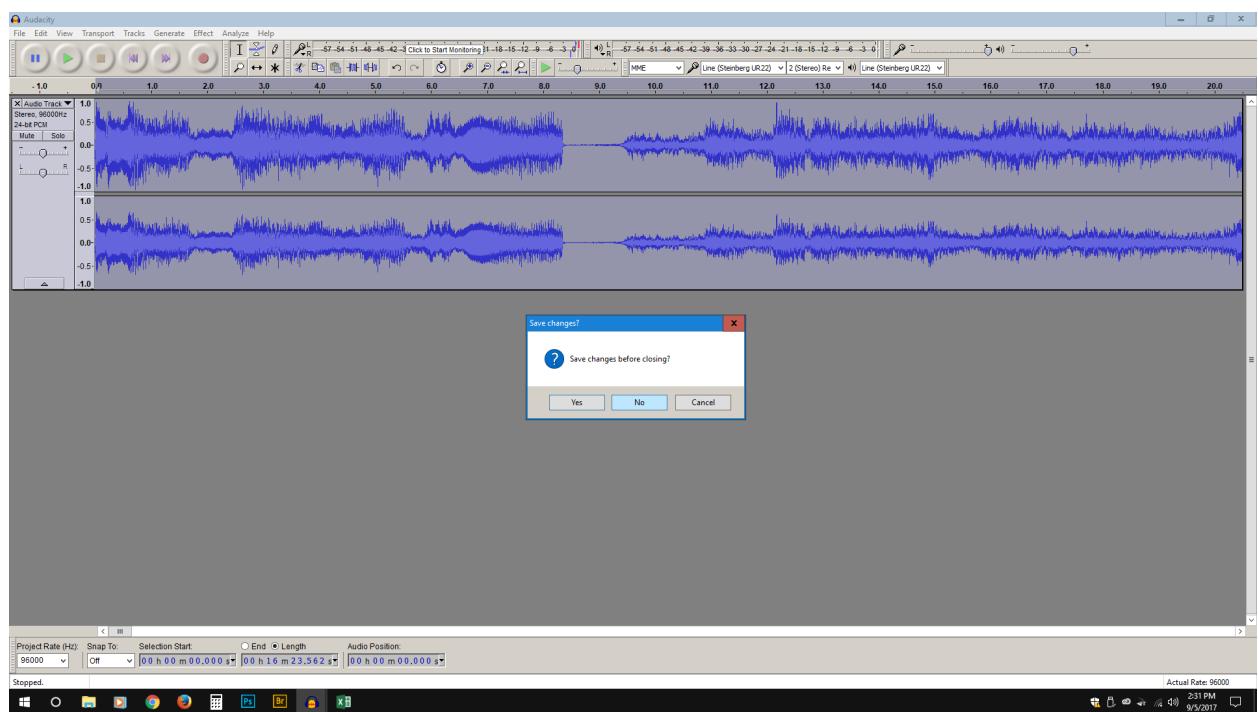
8. EMBED METADATA IN AUDACITY. A) You will be prompted to fill in metadata.

Data entered here will show up in some **BWF MetaEdit** fields. The four required metadata fields are: *Originator*, *Identifier*, *Description*, and *Coding*. The only relevant field that appears in **Audacity** is *Comments*. Put the Identifier in the *Comments* field.

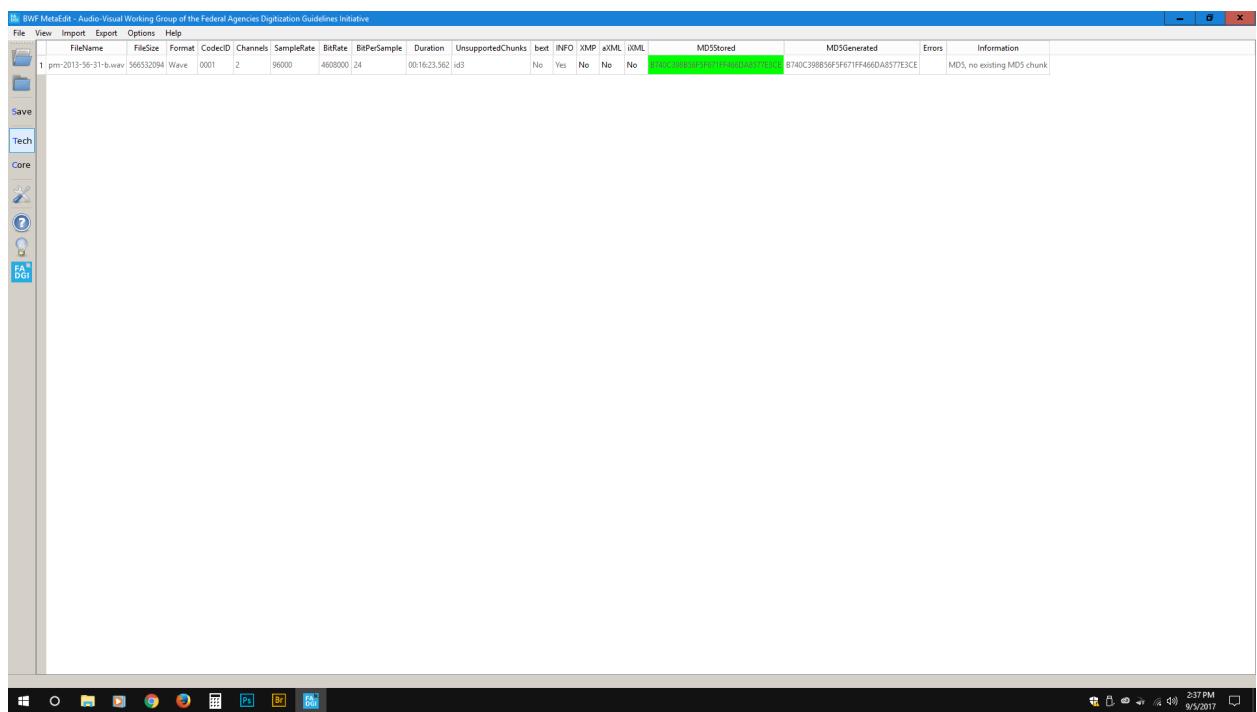
Press “OK.” (See Table 5.)



B) Close Audacity but do not save an Audacity project file when prompted by choosing "No" when asked. Choose Exit to leave the program.

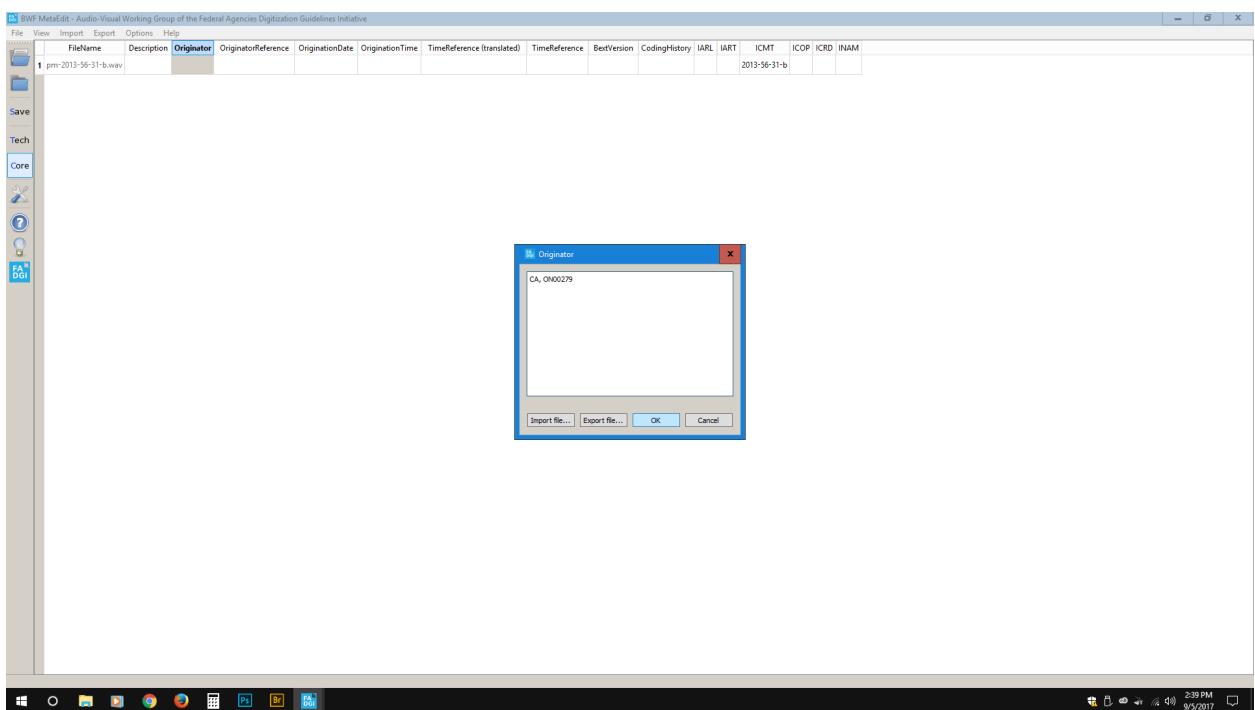


9. **CREATE CHECKSUM IN BWF METAEDIT.** A) Open your preservation master in **BWF MetaEdit**. Choose “File” > “Open” and select the WAV file you just created.
- B) Look at the various fields in the “Tech” metadata window (which is the default when you open **BWF MetaEdit**). The program will automatically create a checksum for these files. Scroll to the far right to find the headings “MD5Stored,” “MD5Generated,” and “Information.” These fields indicate information regarding the checksum. If the field under “MD5Stored” is green, then the checksum has proved that the file has not degraded or been changed. If this field is red, then the “MD5Generated” value (which is created every time a file is checked) does not match the “MD5Stored” value (which represents the original checksum) and the file has undergone some change. Note in the *Digitization Log* if this field is ever red.

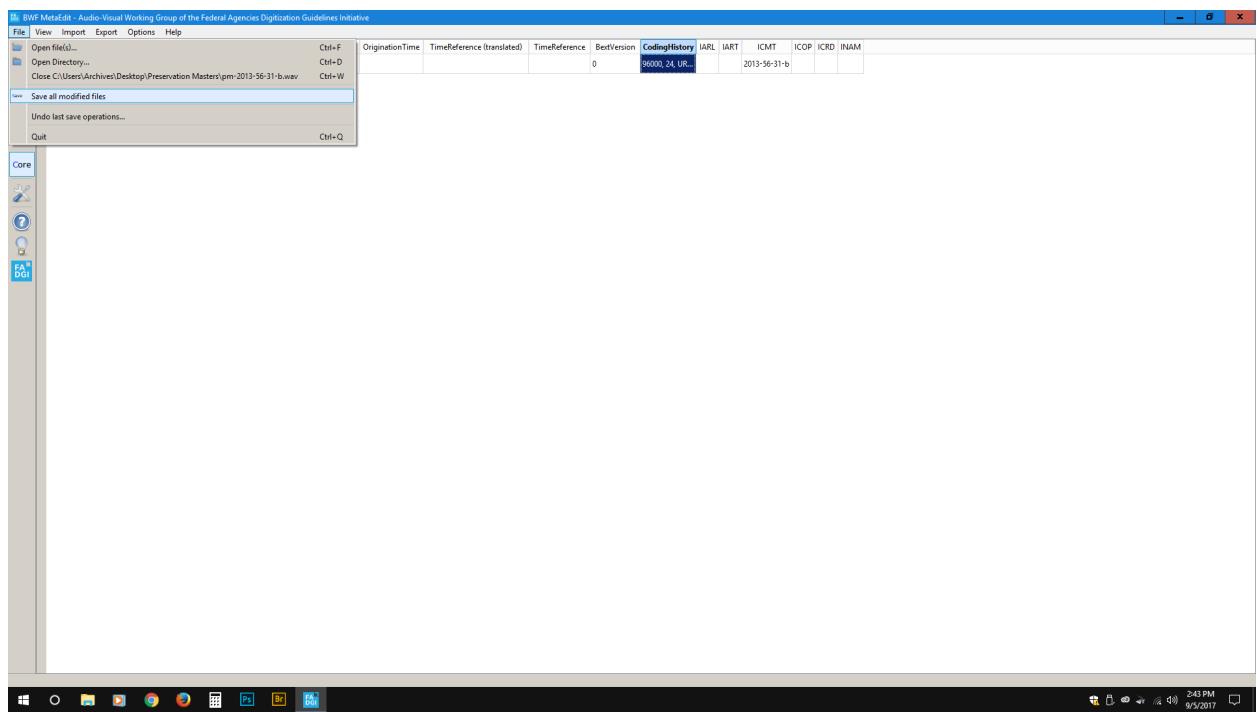


10. **CHECK FOR ERRORS.** Under View, select Log of Errors Only to see if there were any errors when the WAV files were imported. If there were, note it in the *Digitization Log*. If the screen is blank, then no errors occurred.

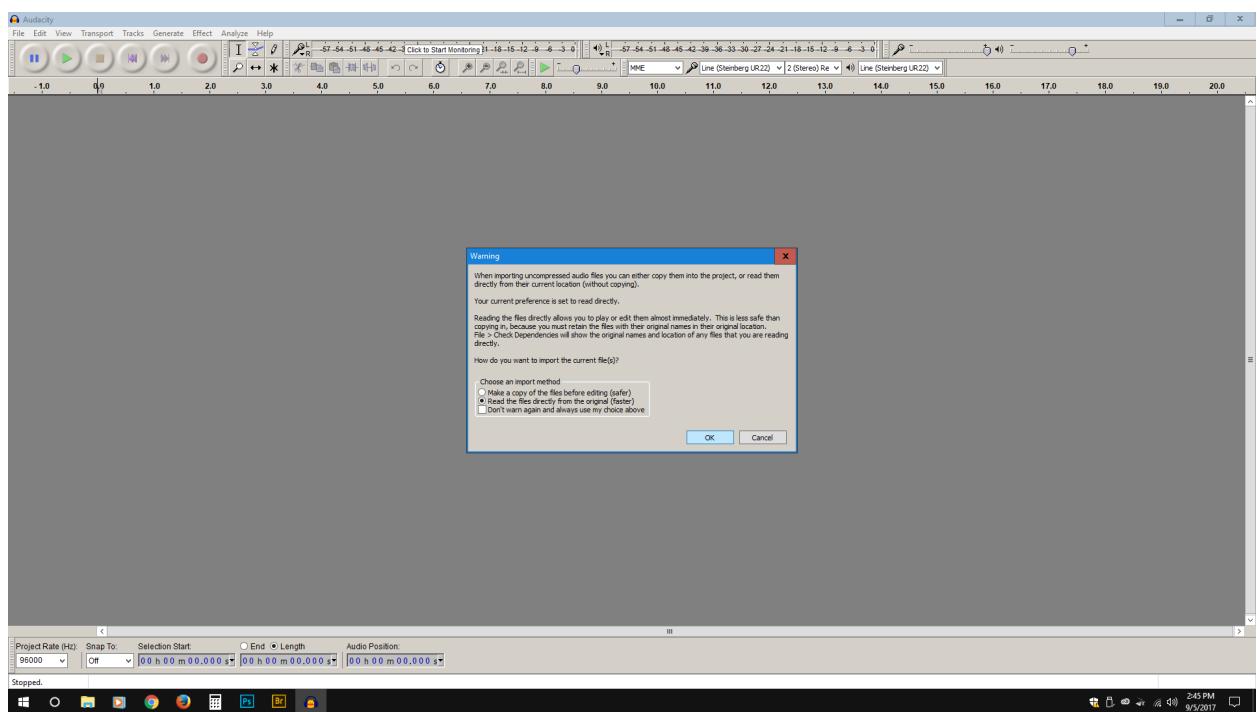
11. **EMBED METADATA IN BWF METAEDIT.** Click on the Core button on the left pane of **BWF MetaEdit** to change views to Core metadata. Double click on *Originator*, *Originator Reference*, *Description*, and *Coding History* fields (use the “Free Text” option for *Coding History*) and enter metadata which you get from the *Digitization Log* you filled out earlier.



12. **SAVE PRESERVATION MASTER.** A) Save the file from the “File” menu by choosing “Save All Modified Files.” It will be converted to Broadcast Wave format. This is the new version of your preservation master with embedded metadata and a checksum. Choose “Close All Files” and then choose Quit.

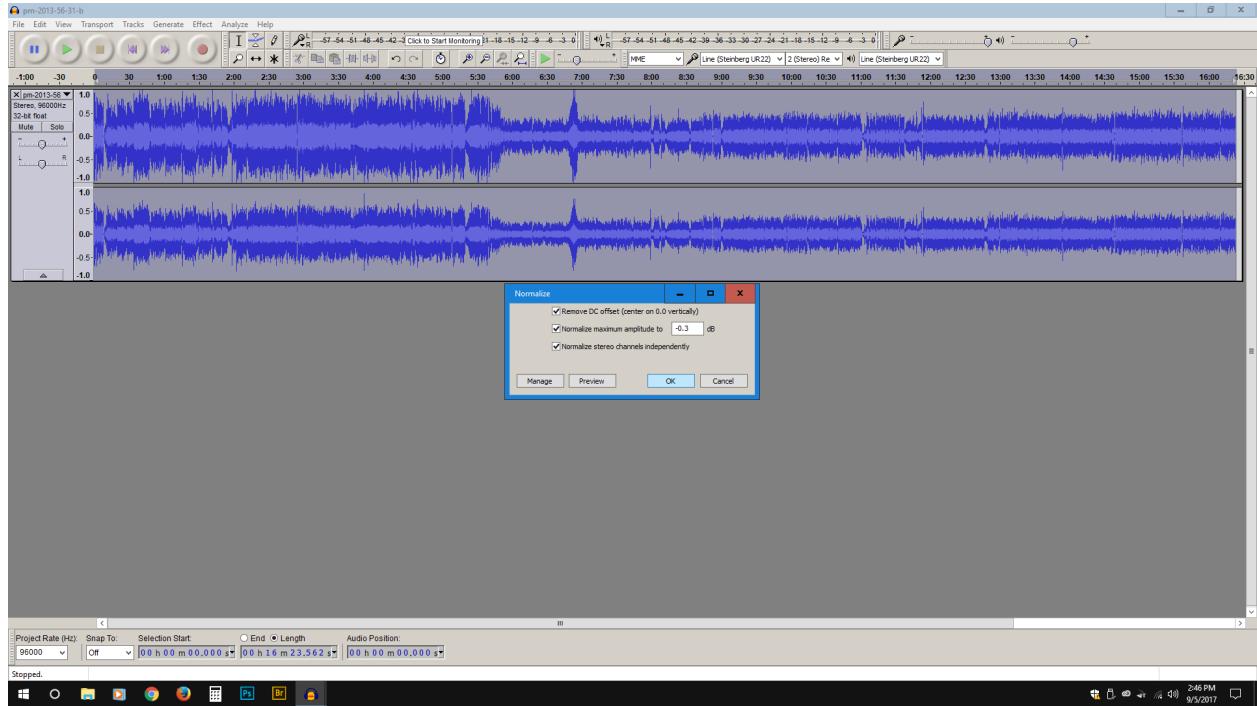


B) Reopen Audacity. Choose “File” > “Open,” select the preservation master, and click “Open.” When prompted, choose “Read File Directly” rather than “Make Copy Of File.”



13. MAKE SERVICE MASTER: OPEN IN AUDACITY AND AMPLIFY AUDIO.

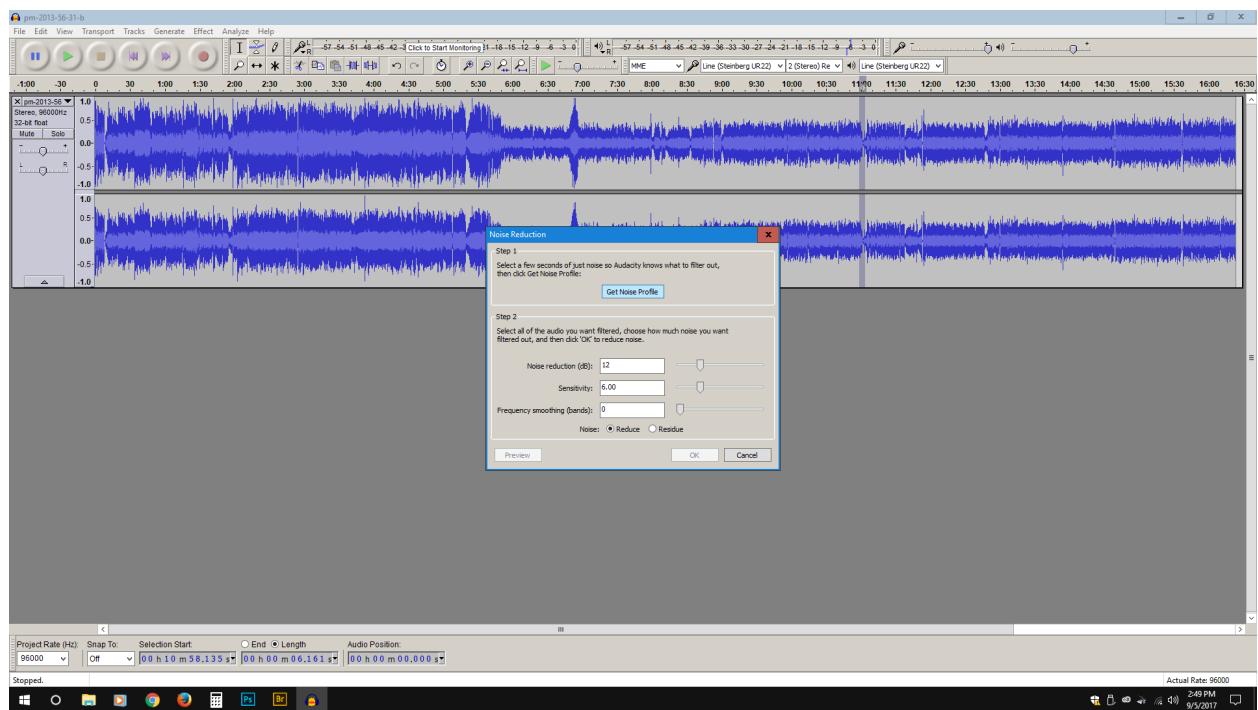
Normalize the audio (this will amplify the audio). Choose “Effect” > “Normalize.” Select “Remove any DC offset.” Select “normalize maximum amplitude to.” Enter “-0.3” into the data entry box. Select “Normalize stereo channels independently”. Click “OK.”



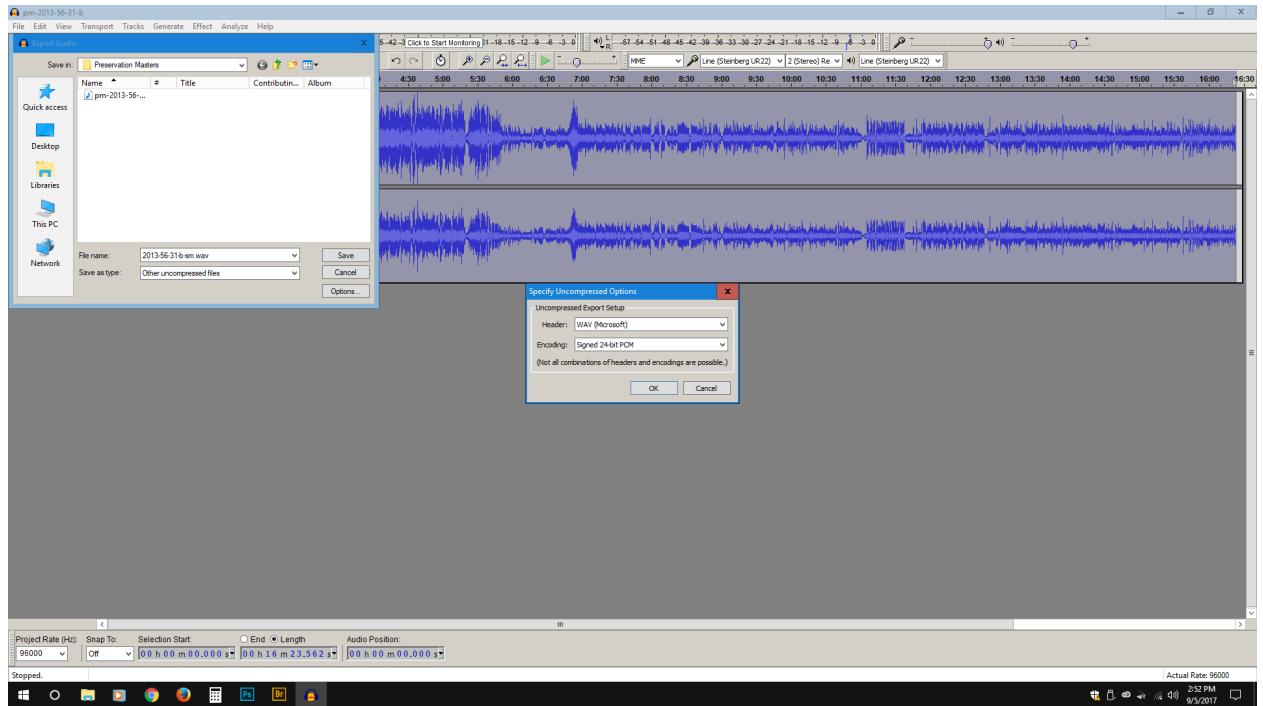
14. REDUCE NOISE.

Now you want to reduce mechanical noise. A) Select a portion of the recording between content (like a pause in conversation, etc.) where you can hear hissing. Under “Effect” go to “Noise Reduction” and select “Get a noise profile”.

B) Then, select the whole track using CTRL/CMD plus A and go to “Effect” again. Select “Noise Reduction,” this time only clicking on “OK,” and the program will render this effect (might take a few minutes). This will reduce or eliminate mechanical noise in the recording. Listen to parts of the track and make sure this process has worked and not distorted the audio.

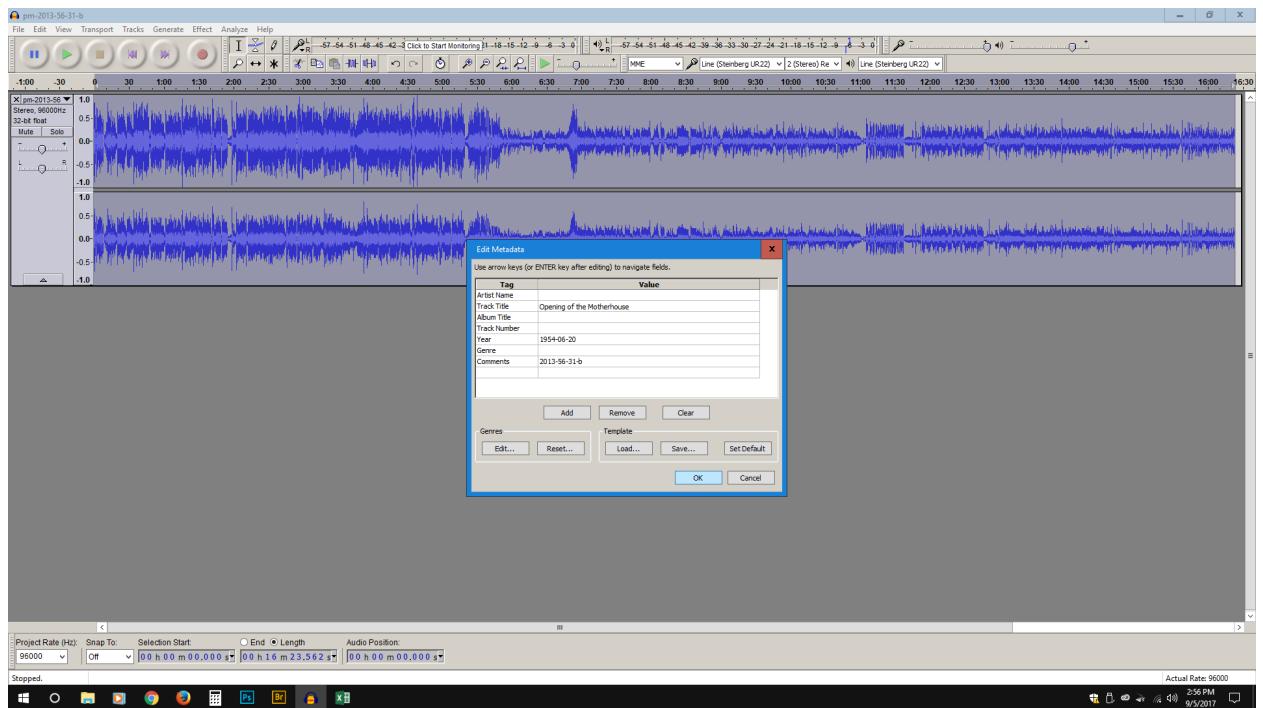


15. **SAVE SERVICE MASTER.** A) Choose “File” > “Export Audio” and name the file “[file name]-a-sm.wav” so that you have a service master (sm) of the edited version.
- B) Select “Other uncompressed files”. Click on the “Options” button. Select “(WAV) Microsoft” and “24bit signed PCM.” Click “OK”. Save to the folder created previously.



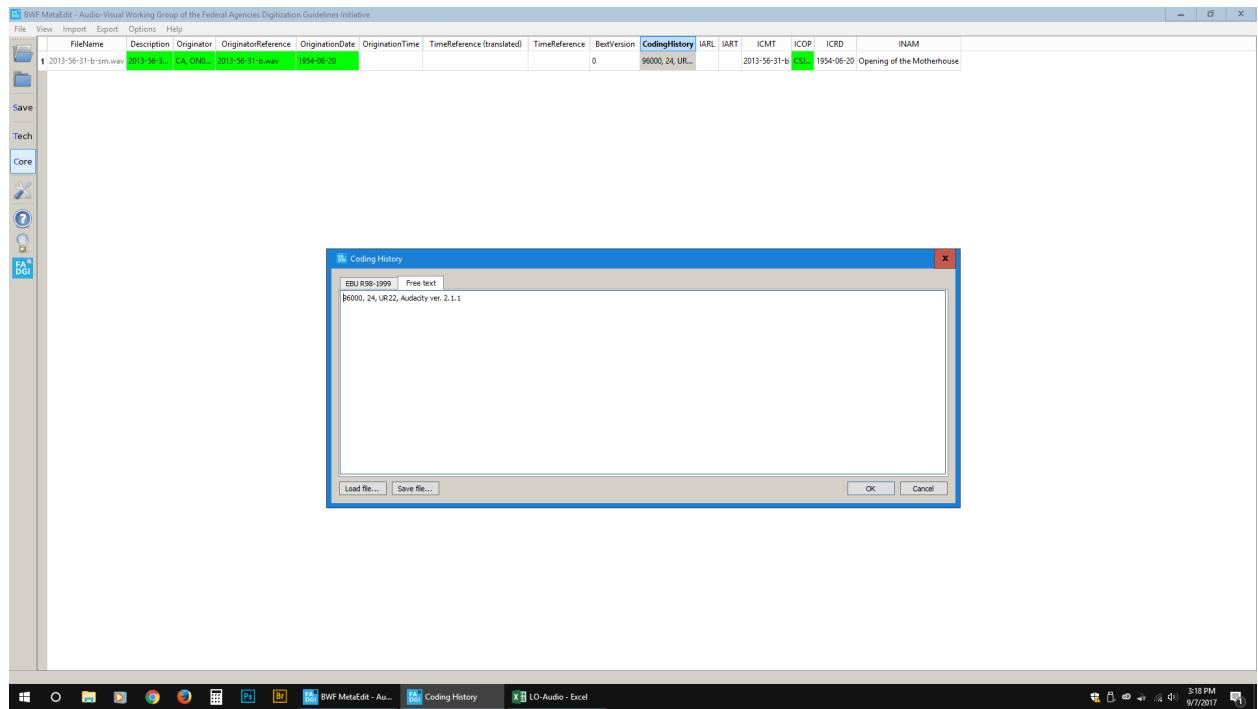
16. EMBED METADATA IN AUDACITY. A) Enter metadata in the window that opens.

The fields are *Artist Name* (IART) (dc Creator); *Track Title* (INAM (dc Title, dc Identifier); *Year* (ICRD) (dc Date); and *Comments* (ICMT) (dc Description).



B) Click “OK.” Close **Audacity**. A window will again appear asking if you want to save an **Audacity** project file. If you are going back to work on the file later, choose “Yes,” but if you are finished editing the file, choose “No.” Choose Exit to leave the program.

17. **EMBED METADATA IN BWF METAEDIT.** A) Open **BWF MetaEdit**. Click “File” > “Open File.” Find the service master file and click “Open.” In **BWF MetaEdit**, use the toolbar along the left side of the **BWF MetaEdit** window, and select “Core.” This is where you will enter metadata. BEXT information that should be included is *Description*, *Originator*, *Originator Reference*, *Coding History* and *Origination Date*. RIFF INFO fields that must be filled out include *Name/Title* (INAM), *Comment* (ICMT), *Creator* (IART), *Creation Date* (ICRD), and *Copyright* (ICOP).

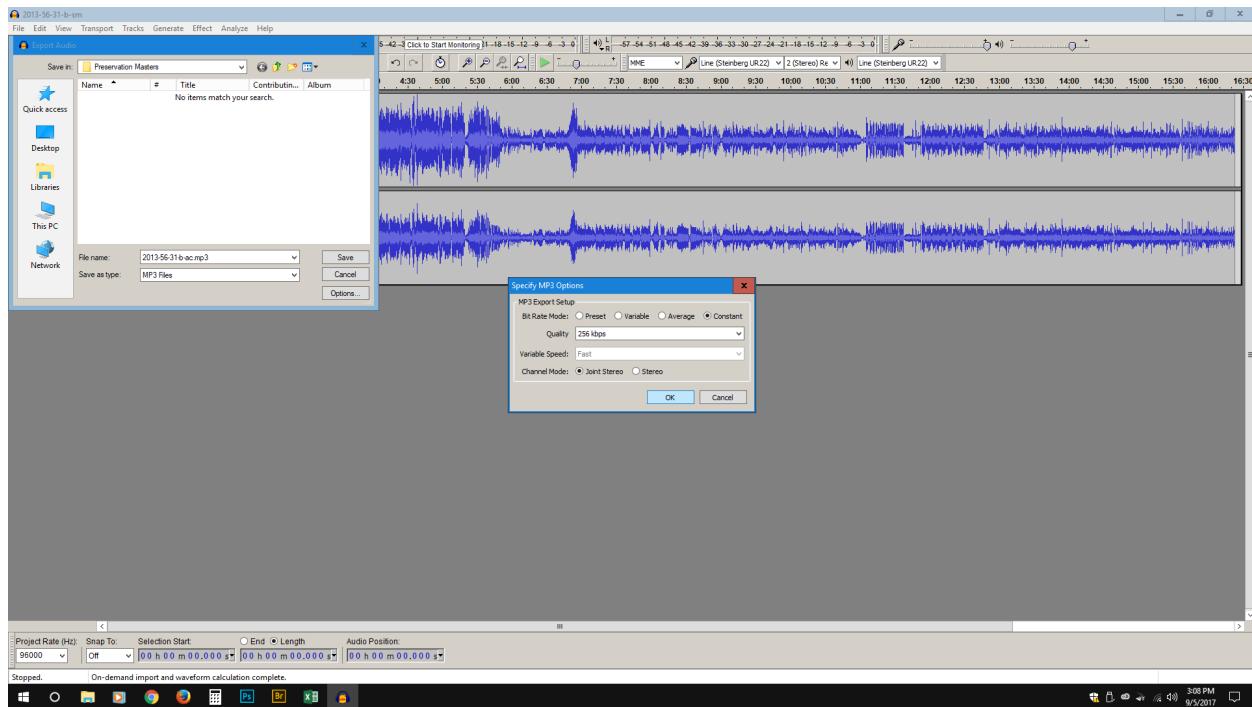


B) Click “Save All Modified Files.” Now you have a service master with embedded metadata. Close **BWF MetaEdit**. Choose Quit to leave the program.

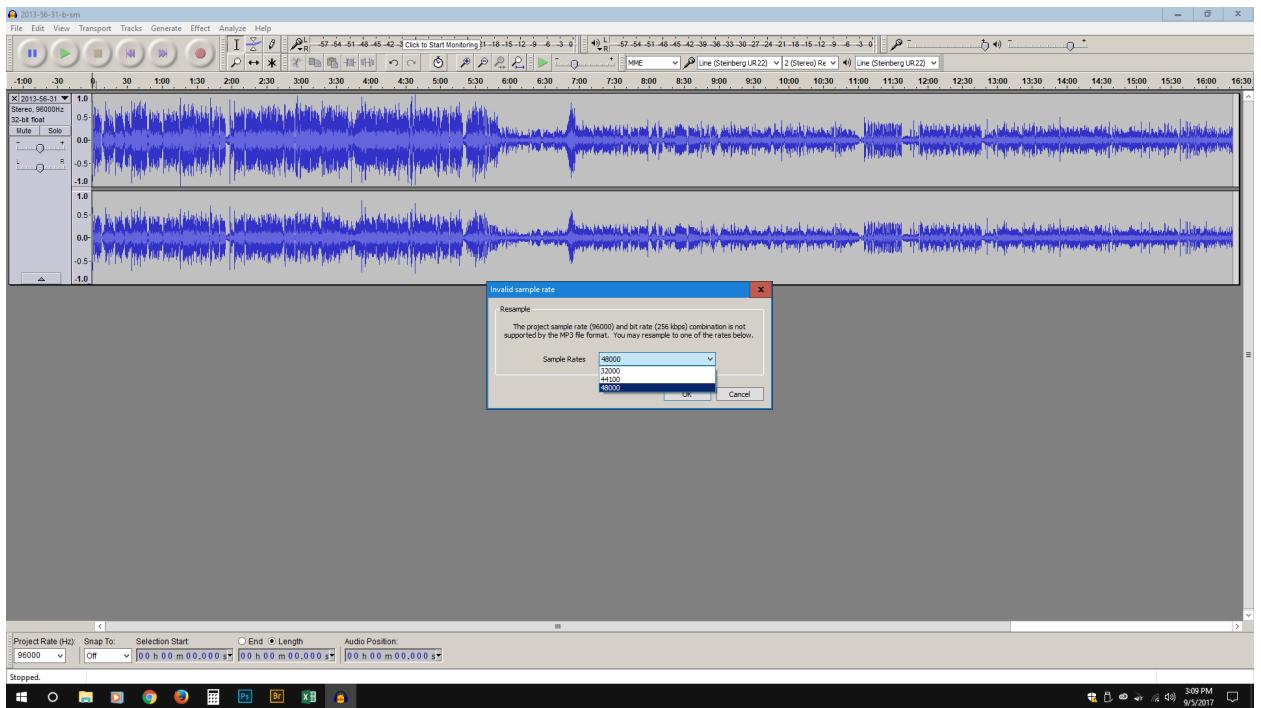
18. **CREATE ACCESS COPY IN AUDACITY.** Create an access copy using the service master. A) Reopen **Audacity** and load the service master by selecting “File” > “Open.” When prompted, choose “Read File Directly” rather than “Make Copy Of File.”

B) Then select “File” > “Export Audio,” choosing “Save As Type” MP3, and naming it “[file name]-a-ac.mp3”. Open “Options” and confirm settings as:

- a. Bit Rate Mode: Constant
- b. Quality: 256 Kbps
- c. Channel mode: Joint Stereo



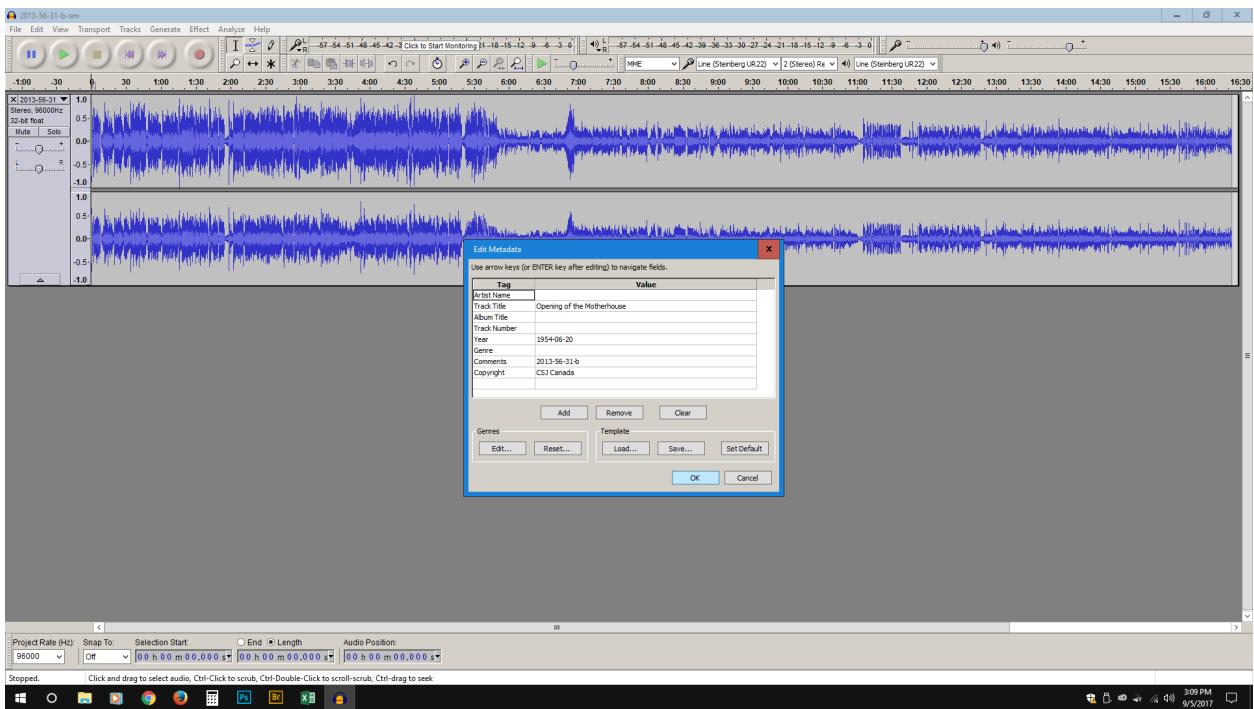
C) Save. When metadata box appears, check metadata. Click OK. Change “Sample Rate” to 48000. Close **Audacity** but do not save an **Audacity** project file when prompted by choosing “No” when asked. Choose Exit to leave the program.



Adding metadata: required fields

You can embed metadata in **Wavelab** fields, in **Audacity** fields, and using **BWF MetaEdit**. See the metadata chart in Table 5 for crosswalks between Dublin Core, BEXT and RIFF LIST INFO fields. Shaded areas represent potential batched metadata. Choose the program you wish to edit metadata with and load the preservation master, service master, and access copy. Add metadata according to the following guidelines and the metadata crosswalk provided below.

1. In **Audacity**, under “Edit Metadata”, the fields are *Artist Name* (IART) (dc Creator); *Track Title* (INAM) (dc Title, dc Identifier); *Year* (ICRD) (dc Date); and *Comments* (ICMT) (dc Description).



2. In **BWF MetaEdit**, use the toolbar along the left side of the **BWF MetaEdit** window, and select “Core.” This is where you will enter metadata. The information entered in **Audacity** should show up under their respective RIFF INFO tags (four-letter identifier). Rolling over the tag headings will give you a description of what to enter in the field and the recommended format. BEXT information that should be included is *Description*, *Originator*, *Originator Reference*, *Coding History* and *Origination Date*. RIFF INFO fields that must be filled out include *Name/Title* (INAM), *Comment* (ICMT), *Creator* (IART), *Creation Date* (ICRD), and *Copyright* (ICOP). Complete these fields. Save the files.

Repeat this whole process for side B of the cassette. The names for files created for side B will be the same except with a “b” in lieu of “a,” so for example the master will be “[file name] –b-sm.wav”.

Table 5 Metadata chart

*Highlighted fields are required.

Dublin Core	Audacity	BWF BEXT chunk	BWF LIST INFO chunk	Explanation
		Description		Give identifier and comment <i>2016-36-1-pm.wav, preservation master, interview, transcription available</i> <i>2016-36-1-ac.mp3, access copy, interview, transcription available</i>
		Originator	IARL Archival Location	Give country and archive code Punc=comma space CA, ON00279
Identifier	Comments	OriginatorReference	ICMT Comment	Give identifier <i>2016-36-1-pm.wav</i> <i>2016-36-1-ac.mp3</i>
Date	Year	OriginationDate	ICRD Creation Date	Give date of original recording. YYYY-MM-DD If only year known give as <i>2005-01-01</i>
		Time Reference		Give time code of sequence
		BextVersion		Give EBU 3285 version 0 (1997) or 1 (2001)
		CodingHistory		Give sampling frequency, bit rate, equipment Punc=comma space <i>96000, 24, UR22, Audacity ver. 2.1.1</i>
Creator	Artist Name		IART	Give name of interviewee(s) Punc=semicolon space <i>Doyle, Sister Jane; Smith, Bob</i>
Rights			ICOP Copyright	Give copyright and privacy restrictions Punc=semicolon space <i>CSJ Canada; publication and other forms of distribution are restricted.</i>
Title	Track Title		INAM Name/Title	Free text <i>Interview with Sr. Jane Doyle at Windsor, Ont., 1999-04-29</i>

Splicing instructions

Look at the inside of the audio cassette to understand how it is built. This is a typical anatomy of an audio cassette, but not all cassettes are built the same:



Figure 1: An audio cassette

Don't open the audio cassette unless it is flat on the work surface. Don't lift it in the air! Remove the screws and the top of the cassette case.

Make sure the felt pad is up and in the center of the metal plate to which it is attached. This metal plate has ends which wrap around the side of another metal plate which is behind it. There are two rollers at each bottom side which are set into pins. The tape should wind around the outside of the small pegs that are adjacent to them. Then the tape winds just behind the plastic tabs on the bottom of the cassette, through the small slits behind each. There is an anti-friction pad, which is a clear piece of plastic that rests on top of the tape. Remove the anti-friction pad.

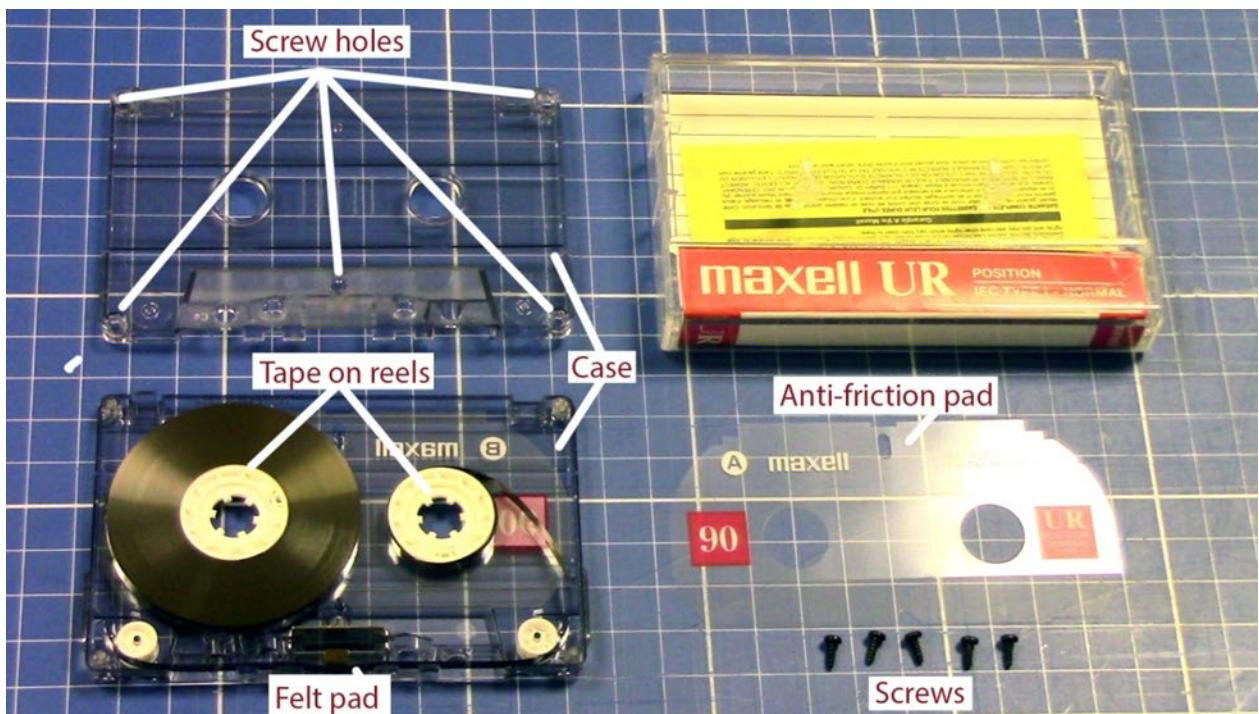


Figure 2: Anatomy of audio cassette

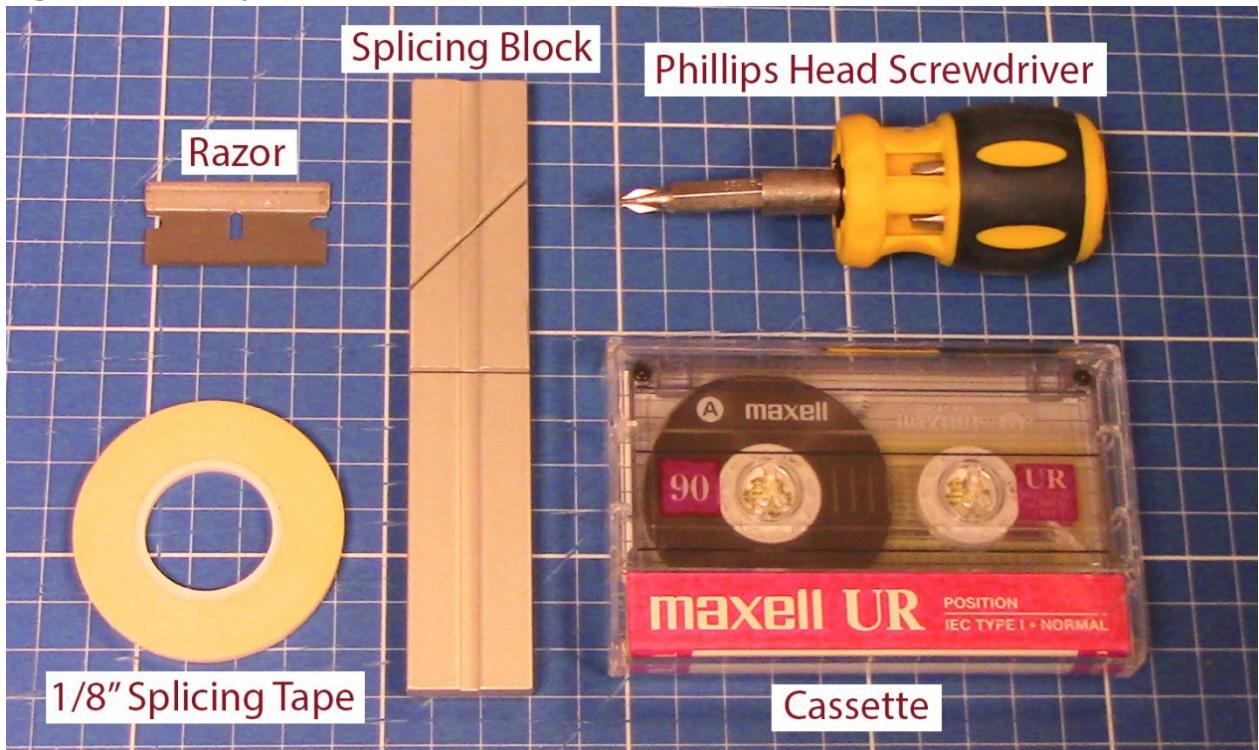


Figure 3: Equipment

1. Wear cotton or nitrile gloves and look for the section of tape that needs to be removed or where there is a break in the tape. Hopefully you can splice without removing the front half of the cassette as the tape slips from the reel easily and is difficult to rewind, but if the ends of a broken tape are unreachable through the bottom of the cassette, remove the screws from the front (usually four or five) and carefully remove the front half of the case. Some cases are glued together so do not pull aggressively if it offers too much resistance.



Figure 4: Broken tape

2. Even up the edges of the tape. Place the tape in the slot on the splicing block so that the base (shinier) side of the tape is facing out. Put the damaged end to the right of the angled slit (where the razor will cut through). Hold firmly with one finger holding the tape on either side of the slit and cut by running the razor at an angle along the groove. Remove about 1 or 2 cm of tape, or 1 to 2 cm away from where damaged tape ends.



Figure 5: Placing tape

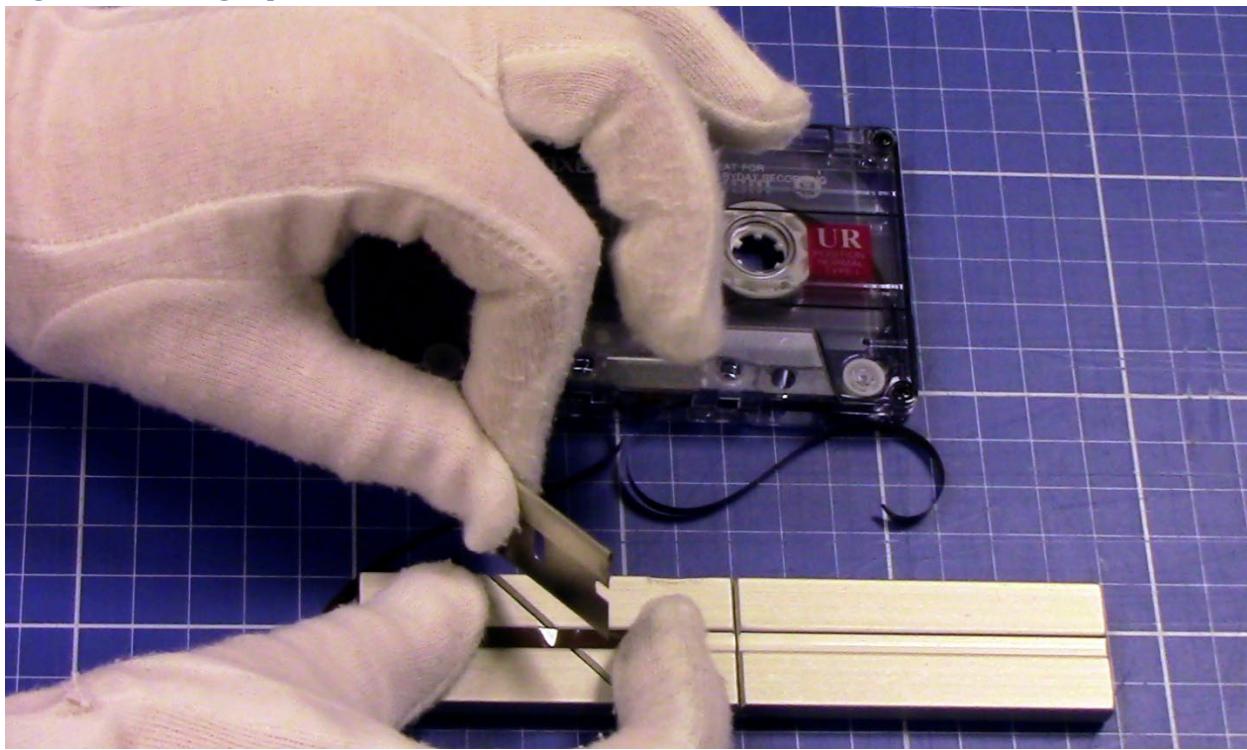


Figure 6: Trimming left side

3. Trim the other (right-hand) piece of tape. Base side up, this time put the tape on the splicing block so that the damaged side is to the left and the side that leads to the cassette is to the right. Cut 1 to 2 cm from the broken end on the same angle as before so that the pieces will match when the same side is facing up. *Be careful not to twist the tape here or at any step.* It is important that the tape remains flat when wound.

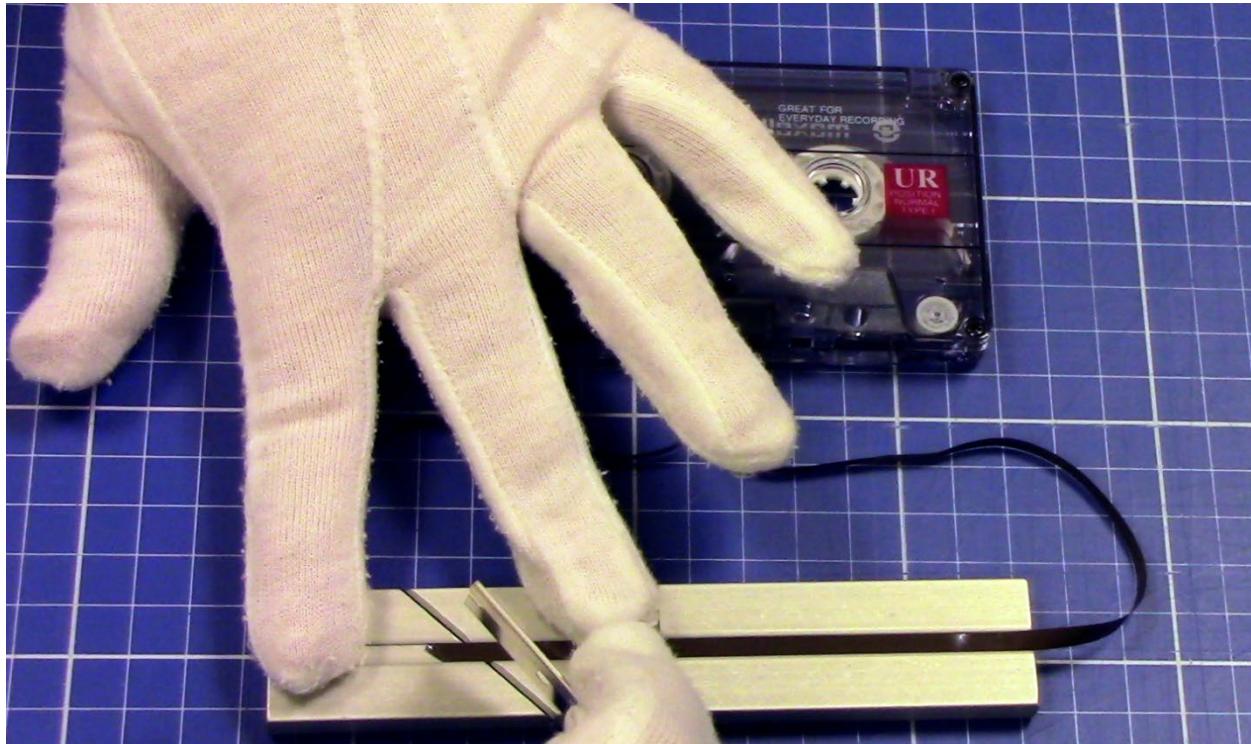


Figure 7: Trimming right side

4. Put both sides of the tape, base side up, into the groove in the splicing block. Match the ends together so that there is no room between them. Remove gloves and cut about 1 cm of splicing tape. Carefully tape the ends together and smooth with a finger to ensure good adhesion. Turn the newly joined tape over and put another 1 cm piece of splicing tape on the back of the joined area. Smooth with your finger.

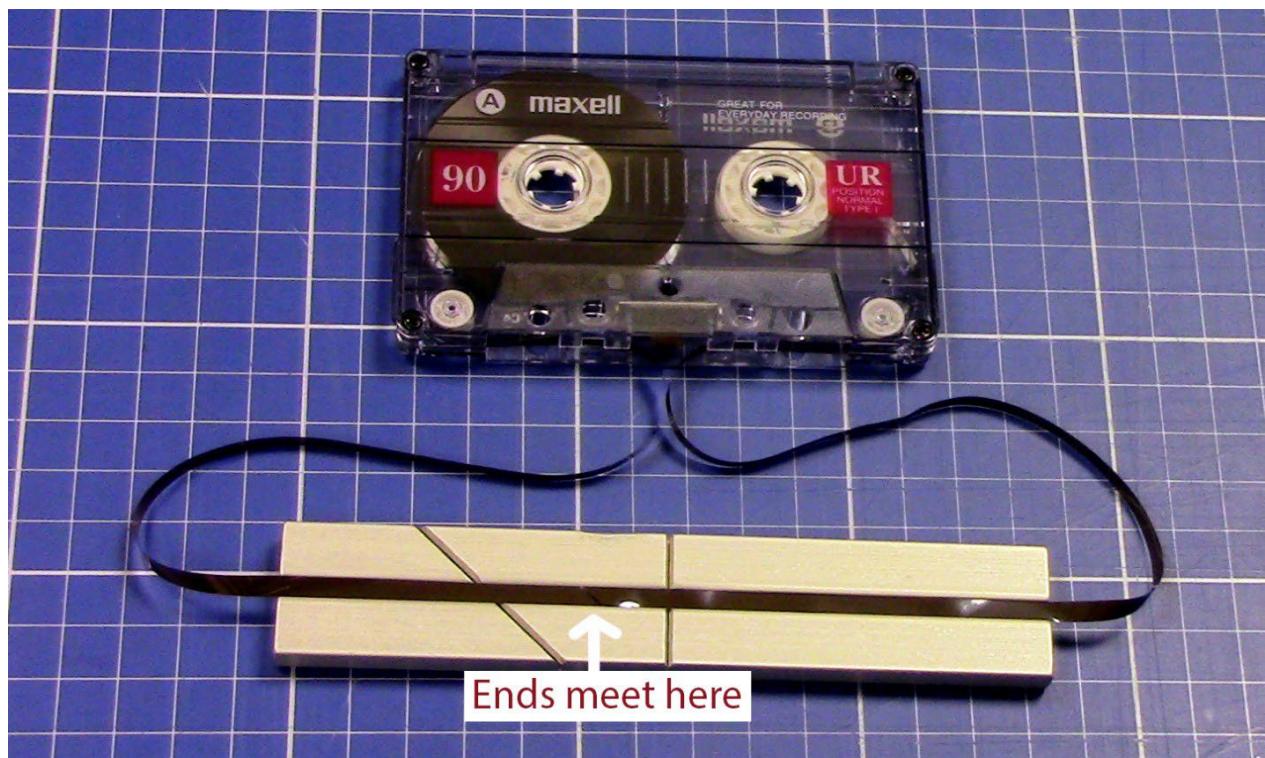


Figure 8: Matching ends at the angle



Figure 9: First piece of splicing tape

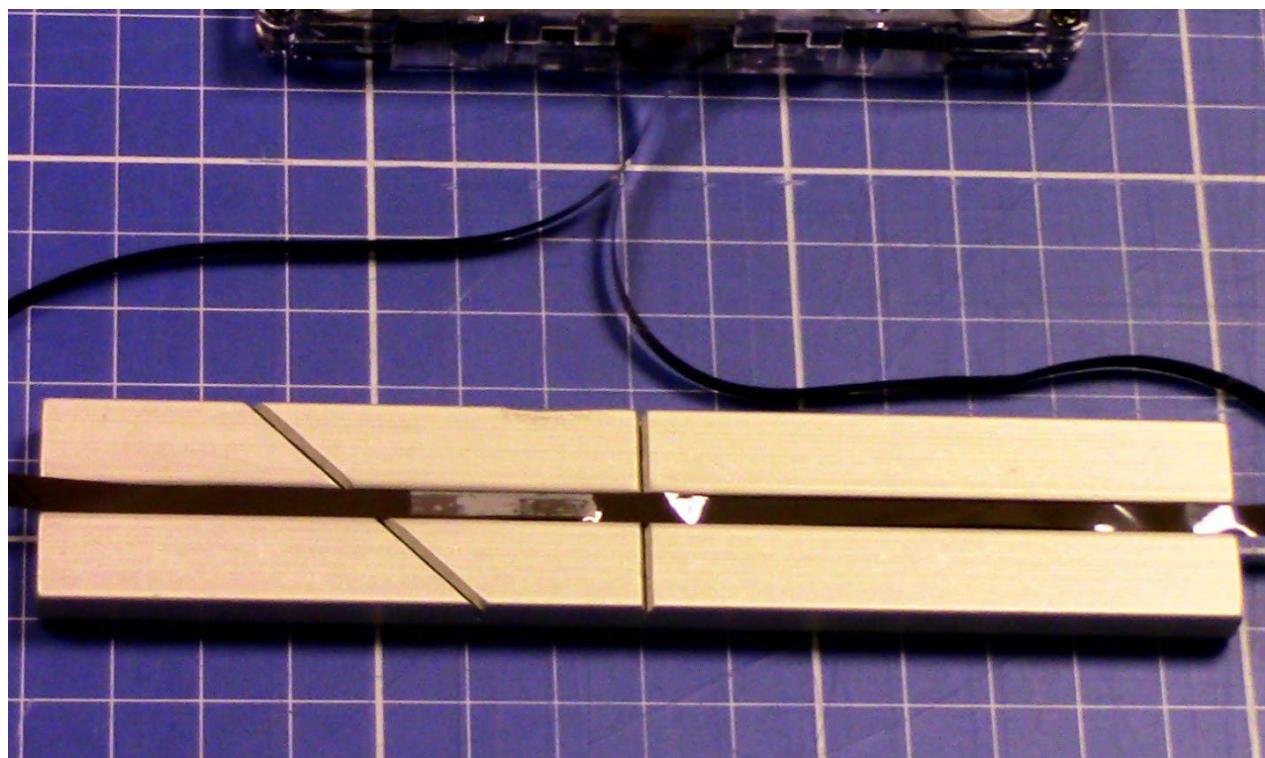


Figure 10: Before smoothing

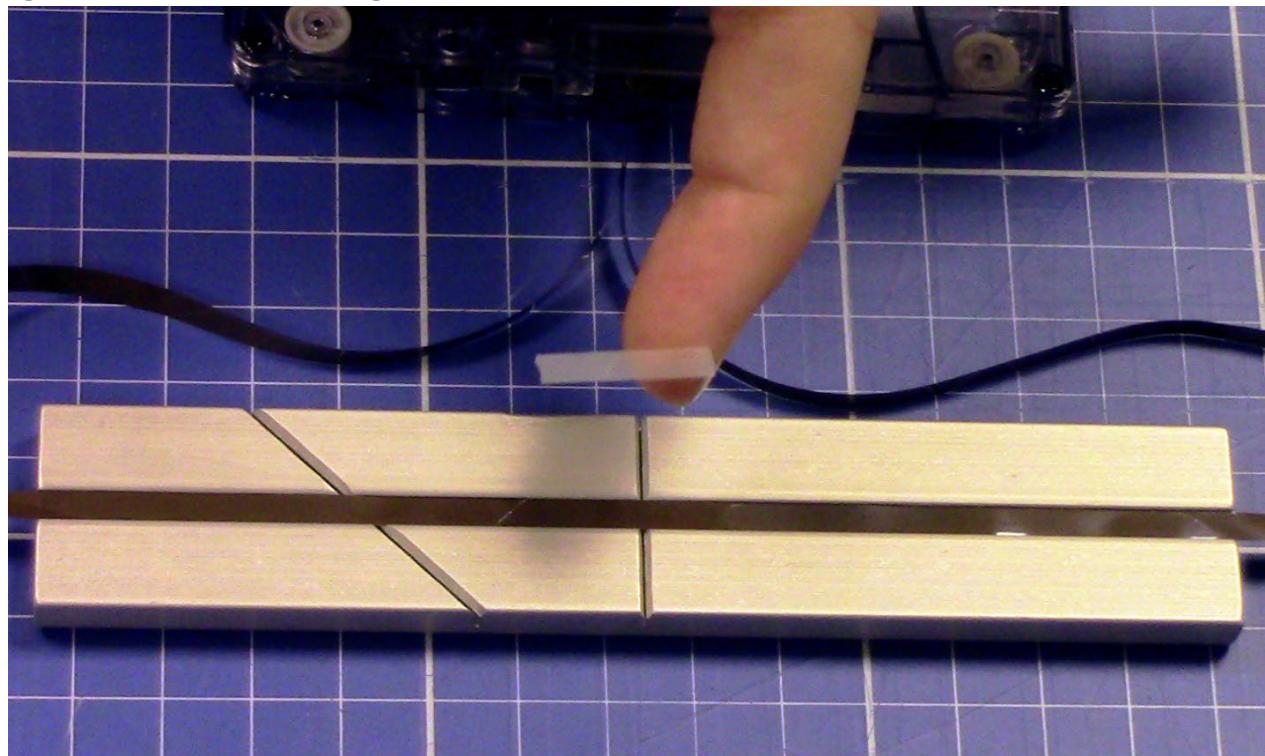


Figure 11: Reverse side taping

- Rewind the tape using a finger or empty Bic pen case and gently winding towards the center of the cassette (counterclockwise for the left, clockwise for the right).
The tape is now ready to use.



Figure 12: Winding

Section 19: Digital preservation

According to the Canadian Conservation Institute, the longevity of non-analogue media is short.

Here are the expected life spans:

Hard disks (magnetic)	2-5 years
Floppy diskettes (magnetic)	5-15 years
Digital tapes (magnetic)	5-10 years
Analogue tapes (magnetic)	10-30 years
CD-RW, DVD-RW, DVD+RW	5-10 years
CD-R (cyanine and azo dyes)	5-10 years
Audio CD, DVD movie	10-50 years
CD-R (phthalocyanine dye, silver metal layer)	10-50 years
DVD-R, DVD+R	10-50 years
CD-R (phthalocyanine dye, gold metal layer)	> 100 years
MO, WORM	10-25 years?
Web page	100 days ¹³

Digital preservation strategies include refreshing, migration, and emulation. *Refreshing* Refreshing can be done in two ways: copying from one media to another such as floppy disk to CD or copying to the same media, such as an old backup drive to a new backup drive. *Migration* Migration means changing the version, such as updating Microsoft Word 2010 to Word 2013 OR it can mean changing the format, a process known as normalization, such as converting a WordPerfect file to a Microsoft Word file. In our archive, we normalize text documents to PDF/A format. *Emulation* is rebuilding software and hardware so you can run old programs on new computers, like running Pac Man on a Windows 10 system.

¹³ Jill LePore, ‘The Cobweb’, The New Yorker, January 26, 2015,
<http://www.newyorker.com/magazine/2015/01/26/cobweb>, accessed 05/06/2016.

It is critical to backup files. Backup digital copies should be checked periodically to make sure they can still be accessed. Follow the 3-2-1- rule: make three copies, store on two different media, and store one copy offsite.

Formats

Open or standard formats are not proprietary and can be read by most software. Data should be unencrypted and uncompressed. When migrating or normalizing files, check for errors. Always retain the original file along with the normalized file. The various preservation formats are discussed on the next page.¹⁴ In our archive, we use these formats for master and access copies:

Preservation	Access
TIFF (image)	JPEG
PDF/A-1b (text)	Word docx, PDF
EML (preferred), MSG (Unicode), Options when you must save attachments separately: MSG (txt), MHT, PDF	EML, MSG (Unicode)
WAV (audio)	MPEG2 Audio layer 3 (MP3)
MPEG4 (MP4) (video)	MPEG4 (MP4)
WARC (website)	

¹⁴ Library and Archives Canada, File ‘Format Guidelines for Preservation and Long-term Access Version 1.0,’ <http://www.collectionscanada.gc.ca/obj/012018/f2/012018-2200-e.pdf>

U.S. National Archives and Records Administration, ‘NARA 2014-04: Appendix A, Revised Format Guidance for the Transfer of Permanent Electronic Records – Tables of File Formats,’ <http://www.archives.gov/records-mgmt/policy/transfer-guidance-tables.html>

USGS Data Management, ‘Data and File Formats,’ <http://www.usgs.gov/datamanagement/plan/dataformats.php>

Section 20: Workflow for digital preservation

Digital preservation system overview

We have three complete copies of all content, with one copy in a different geographic location, and storage on two servers and an offline drive. We perform monthly integrity checks on stored records. We virus check all content and maintain integrity manifests. Only the archivist and I/T staff can read, write, move, and delete files, but the archive receives audit reports on access. We store technical, descriptive and preservation metadata, including concerning file formats, with content and keep an inventory of content and storage locations.

Accession numbers

Every accession number assigned must be recorded in the accession number log. All accessions must also have a record in the **DB Textworks** database.

Before beginning the workflow for born digital records, assign an accession number. Be sure to save the email that comes with the attachments. **Note:** accruals that are received on a regular basis, such as monthly newsletters, will share the same accession number.

For born digital materials created by the archive, such as digital audio or video recordings, the accession number will be assigned as an identifier as part of the process of creating the digital files.

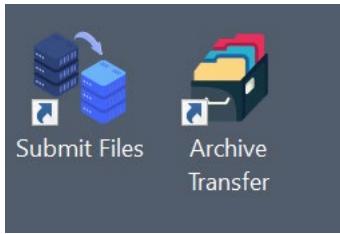
For digitized analogue materials, such as digitized audio tapes or photographs, the accession number is assigned during the digital preservation workflow.

The Open Archival Information System model

Our workflow follows the Open Archival Information System model. A submission information package or SIP is sent to the archive by a depositor. This is ingested into the digital preservation system. After processing, an archival information package or AIP is created, which contains the original content, metadata, and additional metadata generated at ingest. Then a dissemination

information package or DIP is produced which is a copy of the content and metadata. The AIP is the preservation or master copy which is kept in long-term storage, and the DIP is the access copy which may be shared with archive patrons. The AIP in long-term storage has its integrity checked periodically by running checksum algorithms. It is important to ensure the authenticity of digital records by documenting the chain of custody and preservation actions which are taken.

To submit content to the archive, the depositor moves labelled folders containing files onto the Archive Transfer icon on the desktop.



Then, the depositor clicks this open to ensure all files and folders are there and are labelled correctly. The depositor will see a screen that looks like this:

CSJ Archives Submission System.



The Congregation of the Sisters of St. Joseph in Canada Archives

Who made the original files? *

What department do the files belong too? *

Who is submitting the files?*

Is there any sensitive information in the files?

Are there any copyright protected files? E.g., if photos who created the photos?

Are there any access restrictions?

Quit

Submit

After filling out the fields, the depositor clicks on the Submit Files icon. The depositor will see a screen that looks like this:



The depositor will have a file manifest which can be saved if they choose. It contains a list of files, extensions directory paths, dates, and checksums.

A1	A	B	C
File List of C:\Users\Public\Documents\Archive Submission\Submission\Mary Grace Kosta202159DD1059i25\Files\			
1	Name	Extension	Size
2	CSI_WFR1-2012.JPG	.JPG	2760905
3	CSI_WFR11-2012.JPG	.JPG	2688100
4	CSI_WFR2-2012.JPG	.JPG	2521152
5	CSI_WFR3-2012.JPG	.JPG	2491907
6	CSI_WFR4-2012.JPG	.JPG	3075054
7	CSI_WFR5-2012.JPG	.JPG	2813896
8	CSI_WFR6-2012.JPG	.JPG	2893782
9	CSI_WFR7-2012.JPG	.JPG	2329624
10	CSI_WFR8-2012.JPG	.JPG	2911512
11	CSI_WFR9-2012.JPG	.JPG	3023777
12	NKeenan_AAntayaCSI_WFR-2012.JPG	.JPG	2424581
13			
14			
15			
16			
17			
18			
19			

In our archive, new acquisitions are stored temporarily in a submission location on a server. These are downloaded and processed on a local drive, and then sent to long-term storage in a

preservation space on a network attached storage (NAS) server and backed up on another NAS server.

The submission package looks like this:

Name	Date modified	Type	Size
Files	2021-12-05 10:54 AM	File folder	
Checksum Verify.exe	2021-10-28 10:16 AM	Application	1,069 KB
checksums.txt	2021-12-05 10:59 AM	Text Document	2 KB
dirhash.exe	2021-10-28 10:16 AM	Application	2,255 KB
File Manifest.CSV	2021-12-05 10:59 AM	Microsoft Excel Com...	5 KB
Submission Information.csv	2021-12-05 10:59 AM	Microsoft Excel Com...	1 KB

Checksums are run on the content when a submission package is created, and these checksums are run again after downloading from the server by clicking on the Checksum Verify utility. This verifies that at the bit level, there have been no changes to the files. The CSV report titled *File Manifest* can be used to verify the number of files and sizes of the content being deposited to the archive. The CSV report titled *Submission Information* can be used to get contextual information such as the name of the creator, the chain of custody, and whether there are any issues concerning copyright, personally protected information, or access restrictions.

The depositor receives a message once the submission package has been sent to the archive. A second message is sent once the content has been processed, reminding the depositor to purge all files from their drive.

It is important to remember during our processing workflow, that just opening or reading a file can change it. If we use software such as **Quick View Plus** to view the content and use a write blocker when migrating content from a USB stick or floppy drive, we can prevent changes to the original content.

Workflow for digital preservation

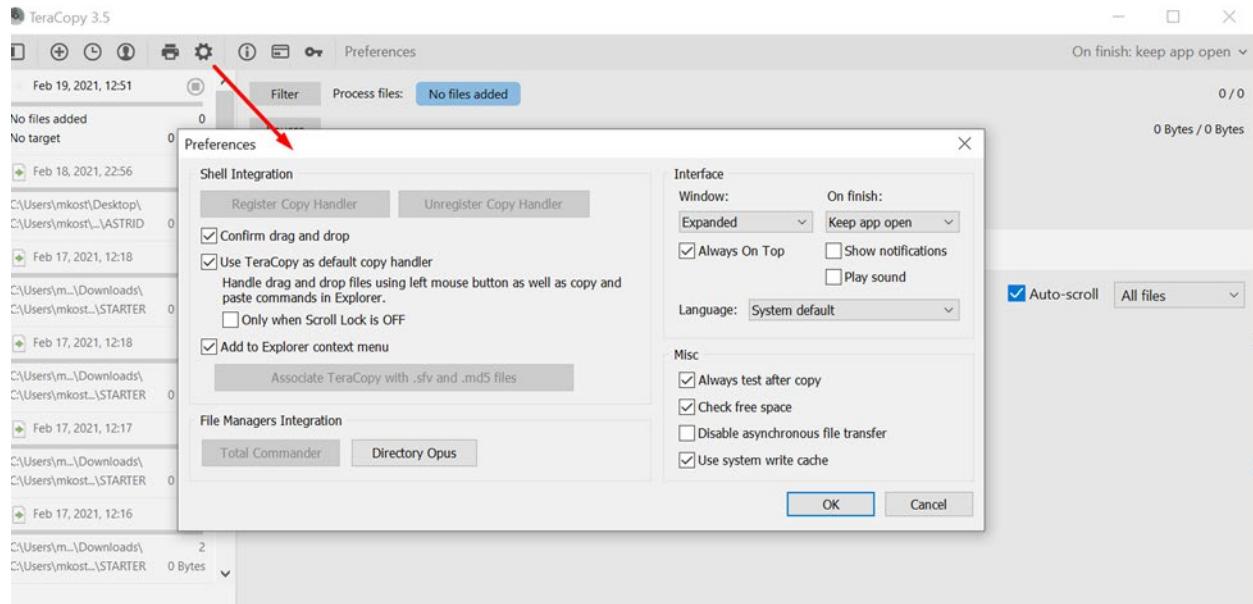
1. Receive the submission package from the depositor which contains checksums, a file manifest, and a folder with content. The directory structure of the submission package looks like this:
 - a. Parent folder
 - b. Subfolder titled “Files”
 - i. Contains files and folders in the original order from the depositor
 - c. Subfolder titled “Metadata”
 - i. Contains the file manifest which contains file names, directory paths, file sizes, and file formats and extensions
 - ii. Contains checksum data
 - d. Checksum utility designed to verify checksums
2. Rename the parent folder with the accession number.
3. Run antivirus scans using two antivirus software programs before submission package. If a virus is found, you can clean it, or discard it, or quarantine it and deal with it later.
4. Use **Teracopy** to move the submission package into the SIP folder
5. Run checksum utility in submission package
6. Unzip any zipped folders after transfer because file formats can't be identified in a sip file
7. Run **Data Accessioner** and create metadata reports to store in the Metadata subfolder
8. Run **DROID** and create metadata reports to store in the Metadata subfolder

9. Make access copies by copying the content and metadata files to the DIP folder
10. Run **Metadata Transformer** on the metadata files in the DIP folder
11. Normalize file formats in the DIP folder if needed (e.g., WordPerfect to PDF/A)
12. Create a collection level description using **Quick View Plus** and **VLC** to view access copies and record any access restrictions in the description. If personally identifiable information (PII) is found, you can restrict access.
13. Add the collection level description to **Archeion**
14. Use **Bagger** to create a new bag and move accession folder and Metadata subfolder from the SIP folder to the Long-Term Storage folder on Drive A
15. Delete any submission folders that have been processed from the SIP folder and send a message to the depositor to purge the files from their drive if they have not done so already. At this point the cached files are purged.
16. Run **Fixity** for integrity checks once per month and save manifests
17. If content has changed, it needs to be replaced from a backup
18. Get reports about hardware degradation from I/T staff

Step one – ingest using Teracopy

You will use **Teracopy** to copy the submission package from the server or other media to the SIP folder.

1. Under Preferences, select as shown in screenshot below and then click OK.



2. Click on “Source,” then select “Add Folders,” then navigate to where the source folder is located, click once on the folder, and click “Select Folder” which will add the folder to **Teracopy**.
3. Click on “Target” and then choose “Browse,” and navigate to where SIP folder is located, click once on the folder, and click “Select Folder.”
4. Click “Copy.” The Copy command will copy the source folder and its content and place it within the SIP folder.
5. Click “Log” to see the results.

Step two- create an AIP using Data Accessioner

Data Accessioner is software that adds Dublin Core and PREMIS metadata to the file(s)/folder(s). Open **Data Accessioner**.

1. Fill in the top three fields. Supply an accession number and collection title that matches that given on the folder and inventory spreadsheet. Click on “Accession to Directory” and choose the location where the file(s)/folder(s) will be stored. This should be the AIP folder on Drive A. *Double click* to open this folder, and then *click only once* on the folder. Then click “Set as Accession Directory.”
2. Click “Source Directory” and choose the location where the accession folder currently resides, which is the SIP folder on drive C. *Click only once* on the folder you want to accession and click on “Set Disk/Directory to Migrate.” You can click on files you don’t want to include and click on the “Exclude” button.
3. Select the folder or file to which you want to add metadata. Select the metadata field, add the metadata, and then click “Add New” after entry. This will add metadata to whatever level is selected, either the whole folder or a folder within a folder or a file within a folder.
4. You can remove a metadata tab by clicking “Remove Selected” button. If you make a mistake, select what you want to fix and click “Remove” button. You can’t edit in **Data Accessioner**.

Minimally, the Dublin Core metadata which should be added is:

Label: Description

Definition: An account of the content of the resource.

Comment: Use a photo caption, a summary, or describe in your own words.

Label: Subject

Definition: The topic of the content of the resource.

Comment: Use keywords from title or description. Can also use Library of Congress Subject Headings. Repeat element for multiple subject terms.

Label: Title

Definition: A name given to the resource.

Comment: Typically, a title will be a name by which the resource is formally known, for example the title of a book, the headline of a newspaper article, the caption on a photograph, the title of a document. If there is no title, supply one but do not use brackets.

Label: Rights

Definition: Information about rights held in and over the resource.

Comment: No material should be digitized unless copyright or copyright permission is held by the Congregation, or the material is in the public domain.

Label: Creator

Definition: An entity primarily responsible for making the content of the resource.

Comment: Use name of author, photographer, interviewee if known. Otherwise omit this element.

Label: Date

Definition: A date associated with an event in the life cycle of the resource.

Comment: Give the original date of creation of the source object, with the qualifier Created. Use ISO 8601. If the object has been changed, use the qualifier Modified. Give each instance of modification.

Label: Format

Definition: The physical or digital manifestation of the resource.

Comment: Use MIME standard vocabulary. Give size or duration using qualifier Extent with a space between the number and the scale. See:

<http://www.iana.org/assignments/media-types/media-types.xhtml#application>

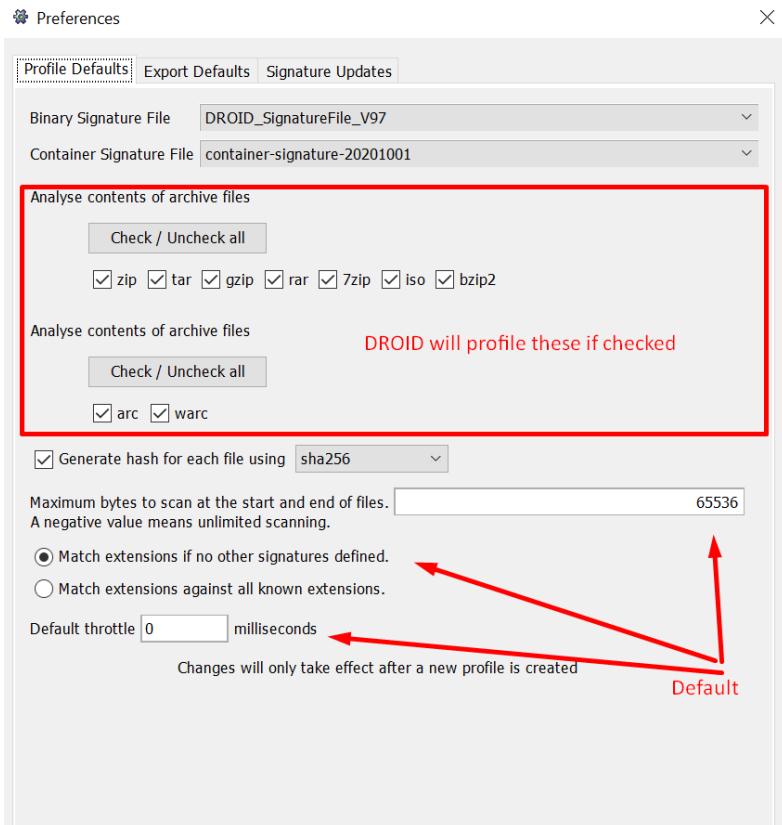
audio/wave	application/vnd.ms-powerpoint
image/jpeg	application/vnd.ms-excel
image/tiff	application/pdf
video/mp4	application/warc

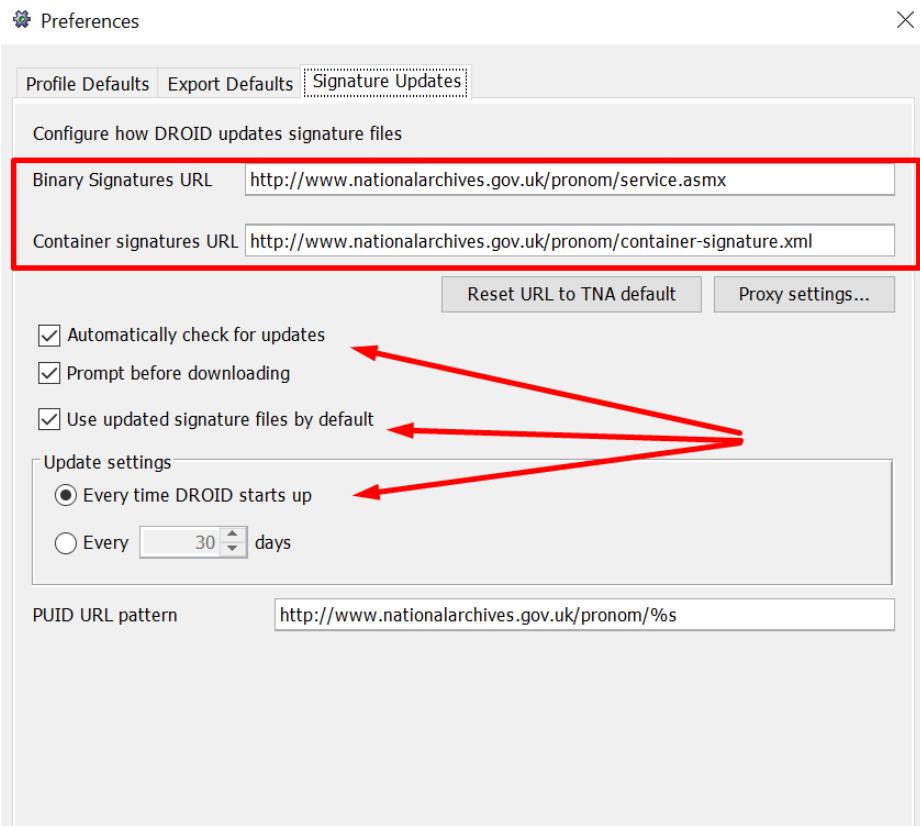
5. When you have finished adding metadata, click on the “Migrate” button. When you see the *Success!* Message in the bottom left corner, you will have migrated your accession folder to the AIP folder along with an XML file that contains file format information, an Md5 checksum, and PREMIS and Dublin Core metadata. Store this XML file in the metadata subfolder.

Step three – get file format information using DROID

Run **DROID** to get file format information and directory locations. **DROID** uses PRONOM, a registry of file formats maintained by the UK National Archives, to validate file formats using the file signature which is a sequence of bytes.

Make sure **DROID** preferences are set up as follows:





Make profile

1. **DROID** will automatically create a profile named “Untitled-1” when it is first started.
You can create multiple profiles and rename them.
2. Click “New” to create a **DROID** profile.
3. Click the File menu tab and then “Save As” to save the profile.
4. Navigate to where the profile will be located, name the profile, and click “Save.”
5. Click “Add” to add folders to the profile. (The box “Include subfolders” is checked by default but you can uncheck it if you want to just profile files within a folder and ignore any subfolders. You can also remove a file or folder if you accidentally add it.)
6. Under Folders select the folder you want to add.
7. Then click “OK” and under the File menu tab click “Save.”

Run DROID

1. You will save the exported data as a CSV file that can be opened using Excel.
2. Click “Start.”
3. Expand the folder to see what it contains.
4. Click “Export” and then click on the check box to select the **DROID** profile(s) to export.
(When exporting one row per file, each row in the CSV file represents a single file or folder profiled with **DROID**.)
5. Click “Export profiles.”
6. Navigate to and select the folder to store the export – store it in the metadata subfolder.

7. Name the export file.
8. Click on the “Files of type” drop down menu and choose “Comma separated values.”
9. Then click “Save.”
10. When you get the “Export Complete” message, click “OK.”

Create reports

1. Reports provide statistics on count of items; total size of items; minimum size of items; maximum size of items; and average size of items. Click on the “Report” menu tab and choose “Generate Report.”
2. Select the profile by checking the box.
3. Click on “Select report” drop down menu and choose “File count and sizes.”
4. Click “Report on profiles.”
5. Click “Export” to save the report.
6. Navigate to a folder to save the report in – store it in metadata subfolder.
7. Name the report file.
8. Click on the “Files of type” dropdown menu and choose “Adobe Portable Document Format.”
9. Click “Save.”

10. Click “Close.”

Step four - create a DIP

Make a copy of the accession folder

1. In the AIP folder, inside the accession folder you should have your content along with a metadata folder with metadata generated by **Data Accessioner** and **DROID**.
2. Make an access copy by copying the XML file and the migrated files and moving these to new folder in the dissemination information package or DIP folder on Drive A using **Teracopy**.
3. You now have the accession folder in the SIP folder on Drive A, the preservation copy in the AIP folder on Drive A, and the access copy in the DIP folder on Drive A. Later you will bag the preservation copy using **Bagger** and move this to the Long-Term Storage folder on Drive A and not touch it again.
4. Create readable files from the XML file generated by **Data Accessioner** using **Metadata Transformer** and store these files in the access copy metadata subfolder.

Make readable metadata files using Metadata Transformer

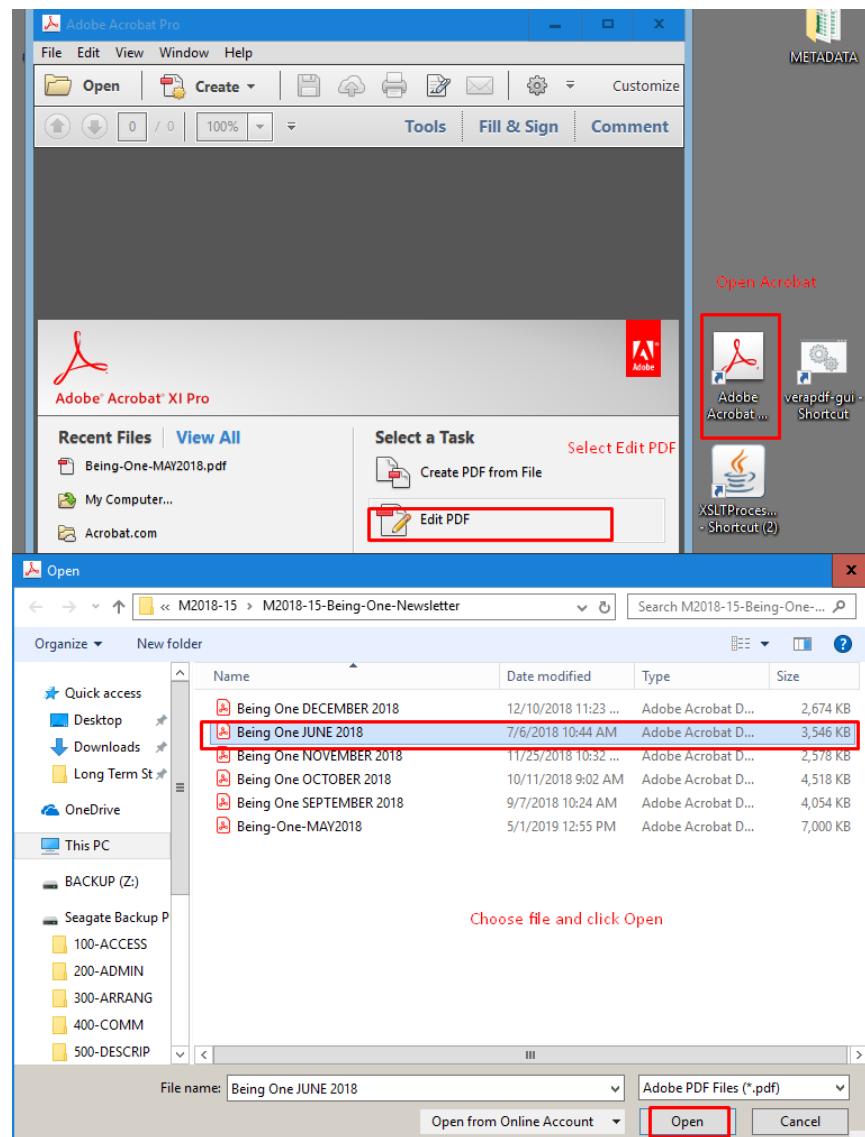
1. Open **Metadata Transformer (XSLT Processor)** software. This software will generate CSV and HTML reports.
2. Click on “Add Source” and find the location of the access copy folder in the DIP folder. Select the XML file you created using **Data Accessioner** by **clicking it once** and clicking on the “Open” button.
3. Click on “Set Output Directory” button to send the generated CSV and HTML files to the access copy folder.

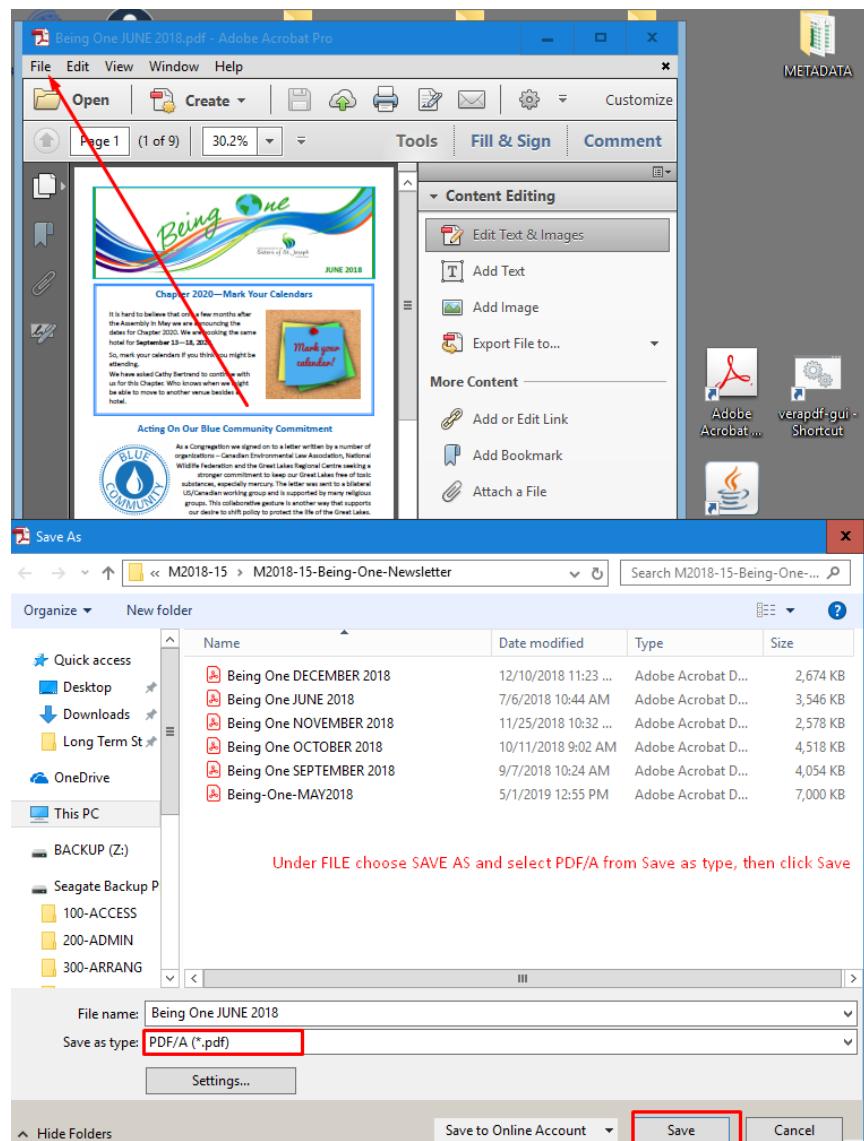
4. Click on the “Run Transforms” button. This will create metadata reports in both HTML and CSV formats.
5. When this is done, go to the access copy folder and open the HTML file with Chrome to see what’s there. **Right click** on the CSV file and choose Excel to open it. Save it as an Excel workbook
6. . You will now have three metadata reports (HTML file, CSV file, XLSX file).

Step five – normalization

If you need to normalize files, convert the files in the access copy folder in the DIP folder to a preservation format. For example, convert Word Perfect format to Microsoft Word. Do this by opening the file in Word Perfect and selecting File > Publish to PDF/A-1B. Another example of normalization is converting PDF to PDF/A.

Here are illustrations of a conversion of a PDF to a PDF/A file using **Adobe Acrobat** and **Vera PDF** software:





Being One JUNE 2018.pdf - Adobe Acrobat Pro

File Edit View Window Help

Open Create Tools Fill & Sign Comment

Page 1 (1 of 9) 30.2% Tools Fill & Sign Comment

This file claims compliance with the PDF/A standard and has been opened read-only to prevent modification. Enable Editing

Content Editing

- Edit Text & Images
- Add Text
- Add Image
- Export File to...

More Content

- Add or Edit Link
- Add Bookmark
- Attach a File

Pages

Interactive Objects

Forms

Action Wizard

Text Recognition

Protection

Tri-Council Meeting in London
Tuesday, June 26, 2018

On June 26, the CLC met with the Leadership team of the Ursuline Sisters of Chatham, the Precious Blood Sisters, the Holy Names, as well as Bishop Donohue and Fr. John O’Donovan.

We discussed the concerns of each community:

- Making decisions to transfer more than 100 students to new schools.
- Planning for a diocesan pilgrimage in Mexico.
- Providing scholarships to high school students to participate in programs for younger people at the UPEI.
- The challenges of new members who are largely from another culture.
- A Diocesan decision to put considerable resources into the Retreat House in Ossley near Windsor because they recognize that retreat centres are becoming an endangered species.
- Diverting from fossil fuels and reducing its impact investing.

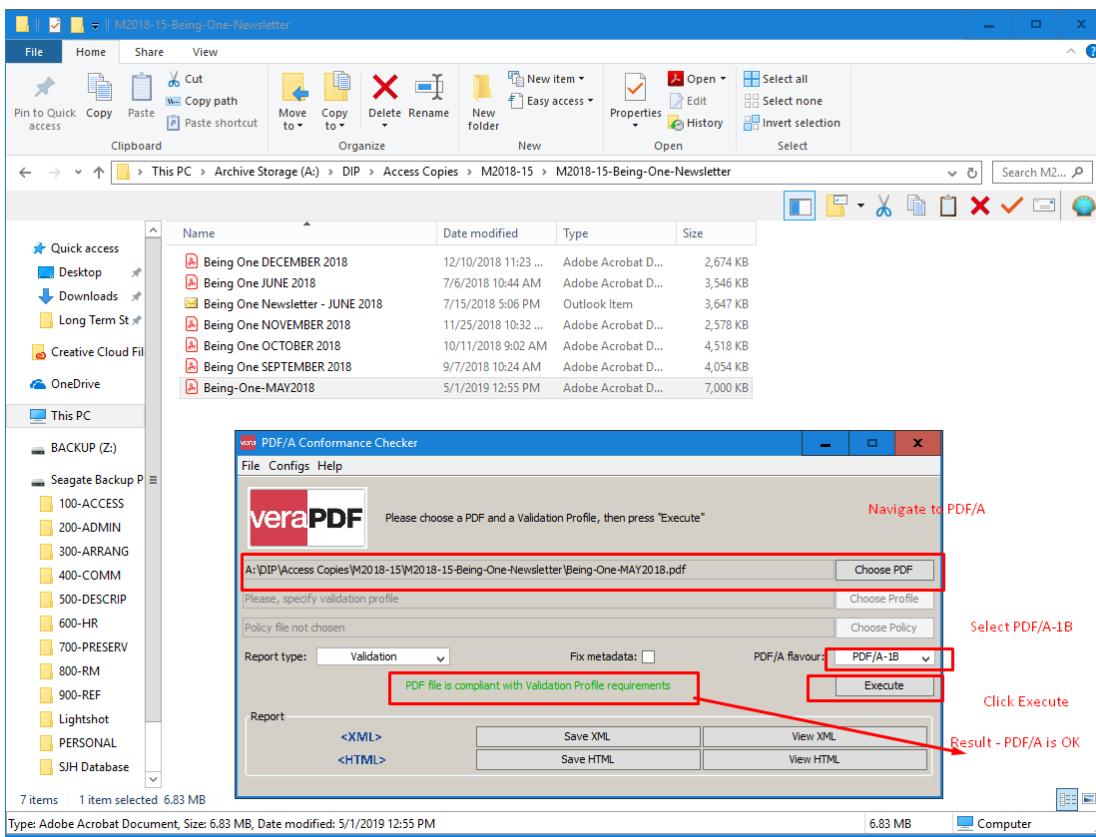
We value the openness and trust among us at these annual meetings.

In photo: Sister Mary Therese, Sr. Carol Fisher, Sr. Patricia McLean

In photo: Sister Mary Therese, Sr. Carol Fisher, Sr. Patricia McLean

In photo: Sister Mary Therese, Sr. Carol Fisher, Sr. Patricia McLean

PEMBROKE DISCERNMENT



Convert a born digital WAV file to an MP3 file

1. Open **Audacity** and go to “File > Open”, navigate to the DIP folder and double click to open the access copy file. Choose “Read Directly.” Once the file has fully loaded (see bottom left corner for this information that on demand waveform calculation is complete), choose “File > Export Audio” and navigate to the correct folder. Choose “Save As Type MP3,” renaming with the suffix –ac and deleting the suffix -pm. Click on the “Options” button in the lower right corner of the export interface. Ensure the settings are:
 - a. Bit Rate: Constant
 - b. Quality: 256 Kbps
 - c. Channel Mode: Joint Stereo

Then click “Save.”

2. When the metadata box appears, just click “OK.”
3. Change “Sample Rate” to 48000. Exit the program but do not save the **Audacity** project file when prompted.

Step six – send AIP to long-term storage using Bagger

Run **Bagger** to bag the AIP and send to the Long-Term Storage folder. **Bagger** is software that creates a package or “bag” which contains:

1. Data folder which has the content or “payload.”
2. Several text files:
 - metadata about the package called bag-info.txt (a shipping label)
 - bagit.txt which is metadata about the bag
 - manifest-md5.txt which is metadata about the content (a packing list)
 - tagmanifest-md5.txt which is a file created by **Bagger**.

Run Bagger

1. Double click on **Bagger**.
2. You will see a command line prompt window and then the **Bagger** start screen.
3. You will bag a copy which creates a copy of the originals, leaving the originals untouched, rather than using the “Create Bag in Place” option.
4. Click on the “Create New Bag” button.
5. Choose the option “Digital Records Accession Generic from the drop-down list and click OK.
6. Some information has been automatically filled out, e.g., the Bag Version is 0.9Fill 7.

7. Required fields have a red “R” next to them and the rest of the fields are optional. A drop-down menu with “????” means you can choose from the list.
8. First, click on the “Create New Bag” button. Next, choose “Digital Records Accession Generic” and click “OK.”
9. Fill out these fields: Accession Number, Transferring Institution, Records Retention Type, Records Title/Description, Records Hashed Before Transfer, Hash Signature Type.
10. Click on the “File” button on the menu bar and choose “Add Data” to add the accession folder you want to bag.
11. Browse to the AIP folder on Drive A and search for the accession folder you want to bag. Double click on the AIP folder, then double click on the accession folder. Then use shift click to select the file(s)/folder(s) and the XML metadata file. Then click “Open.”
12. The files to be bagged are added to the “Payload” pane.
13. Click on the “Save Bag As” icon which will bring up the “Save Bag Dialog” screen.
14. Next, double click on the Long-Term Storage folder on Drive A and click “Open.”
15. Name the bag with the accession number and collection title. Then click “Save.”
16. You will get a popup window that tells you the bag was saved successfully. Click OK.
17. Click on the “Is Bag Complete” option at the top and you will get a pop-up window confirming this.
18. Click on the “Validate Bag” option on the top to make sure the bag is both complete and the checksums are verified. You will get a pop-up window telling you if it is validated.

19. Click on the “Close Bag” option and choose “Yes” to save the bag.
20. When the “Save Bag Dialog” screen pops up again, just click “OK.”
21. The bag is now stored in the Long-Term Storage folder.

Step seven – run integrity checks

1. Monthly integrity checks using **Fixity** are automatically run.
2. If a **Fixity** check reports a changed file, identify the file using the report and replace it with a backup copy. Do this by opening the “version” folder on a backup drive. Look at the timestamp and date. Copy the backup file to the folder with the changed file, delete the changed file, and rename the backup file to match the original name of the file which has been replaced.
3. Use the accession record to record any file migration down the road.
4. If any files in bags are migrated, you must re-bag these files using **Bagger**.

Creating disk images

Another approach is to create a disk image using forensic software tools such as **FTK Imager** and **Bit Curator**. You get the media, such as a computer driver, assign an accession number to it, describe, and photograph the media for the accession record and use a write blocker to connect the media to your computer. The write blocker will stop your computer from writing to the media so that it only reads what is on the media. Then you make a bit-by-bit copy of everything, including deleted files by creating a forensic disk image. You can browse the disk image and extract files.

Archiving websites and social media

Using Conifer

1. Go to <https://conifer.rhizome.org/>.
2. Open existing account.
3. Scoping is what we call it when we tell a web crawler what to capture and what not to capture.
4. With **Conifer**, you are the crawler. **Conifer** will only record what you are looking at so you should know in advance if there is embedded content or links you should follow.
5. Enter a URL, choose what collection to add it to, choose your browser, and click the “Start Capture” button.
6. Scroll over the web page and mouse over any animations you want to capture. Press play on any videos, audio, or navigate through photo galleries. Remember what you click gets recorded.
7. To end the capture, hover over the “Capture” button until it becomes “Stop” and then press it.
8. You can now click on the URL for the webpage you captured under “Page Title” and view it in your browser.
9. If you click on the dropdown menu on the “Browsing” button and select to either recapture or patch the webpage. You would choose to patch it if there was content missing. To end the patching session, hover over the “Patching” button until it says “Stop” and then click it.

10. To add another webpage, click “Collections Manager” and then “New Session” button.

Paste in a URL and hit Enter.

Metadata fields for websites

Dublin Core	WAM	RAD	Notes
Creator		Access point: Provenance	Give creator of live website.
Date		Dates of creation, including publication, distribution, etc. area: Dates of creation	Give date of first crawl and frequency of captures after this.
Description		Archival description area: Administrative history/Biographical sketch Archival description area: Scope and content Notes: Immediate source of acquisition Notes: Accruals	Give reason for archiving website. Indicate that the content is an archived website. Note whether any content on the live site is missing from the archived site. Give administrative history or biographical sketch of creator. Give scope and content note. Indicate whether accruals are expected.
Language		Notes: Language	Use: ISO 639: https://iso639-3.sil.org/code_tables/639/data
Relation		Title and statement of responsibility area: Title proper Notes: Related groups of records in different fonds Notes: Related groups of records within the same fonds	Note whether website is part of a collection of archived websites or part of an analogue archival collection or related to other digital material.
Subject		Access point: Author Access point: Other non-subject	Don't give genre in this field. Use LCSH.

Title		Title and statement of responsibility area: Title proper	Use title given in head of home page and add “archived website(s); blog, Twitter feed; Facebook page” as applicable. If a collection of websites, create name for collection and add organization’s name.
	Collector	EAD <repository>	Give repository that archived the website, e.g., CSJ Archives.
	Extent	Physical description area: Extent of unit being described including specific material designation	Note whether this is a collection of archived websites or one archived website.
	Genre/Form	Physical description area: Extent of unit being described including specific material designation	Use: WAM controlled vocabulary: blog; Facebook page; Twitter page; Social media; Corporate website.
	Rights	Notes: Restrictions on access Notes: Terms governing use and reproduction Notes: Terms governing publication	Use: “The copyright status of this material is not known. Users are responsible for determining whether or not the material may be re-used for publication.”
	Source of Description	EAD <processinfo>	State description is based on archived website captured [date]; title from home page (viewed [date]).
	URL	EAD <dao href=>	State URL at time of capture [url].

APPENDIX I

Common series

Common Personal Series¹⁵

Audiovisual materials	Correspondence	Diaries
Ephemera, Artifacts	Finance	Genealogy
Legal	Organizational Files	Photographs
Print Materials	School Records	Scrapbooks
Subject Files	Writings	

Common Business Series

Administrative Records	Advertising	Audiovisual Materials
Committee Files	Constitutions, charters, bylaws	Conventions and Conference Proceedings
Correspondence	Executive Board	Finance
Legal	Meeting Files (background information for meetings)	Minutes
Personnel	Photographs	Public Relations
Research	Subject Files	

¹⁵ This discussion benefitted from the Society of American Archivists Arrangement and Description workshop, Pam Hackbart-Dean and Anne Ostendarp, 2021.

APPENDIX II

Types of metadata

1. **Descriptive** – characterizes the nature of a resource and supports its discovery, e.g., title, creator, subject
2. **Structural** – gives information about the relationship between the parts of a resources, e.g., sequence, relation
3. **Technical** – gives technical information about a digital resource, e.g., checksum, file format
4. **Administrative** – gives the information needed to manage a resource, e.g., rights, preservation
5. **Rights** – gives limits on the use of a resource and access restrictions, e.g., copyright holder, license terms
6. **Preservation** – indicates the actions taken to preserve a resource, e.g., preservation events, preservation level

Metadata standards

- 1 **Data content standards** are cataloguing rules for what to put in metadata fields, e.g., RDA, RAD, DACS, ISAD-G
2. **Data value standards** are controlled vocabularies, e.g., LCSH, MeSH, AAT, MIME types
3. **Data structure standards** define the elements and fields for metadata, e.g., DC, EAD, PREMIS, MARC
4. **Data format or exchange standards** provide the syntax for metadata, e.g., XML, EAD, METS

Library of Congress Subject Headings

Library of Congress Subject Headings or LCSH, are the type of controlled vocabulary used in our archive. Here is some guidance on building subject headings.¹⁶

- Choose the heading that most closely represents the subject of the materials.
- Don't add broader headings.
- Use no more than six headings.
- Punctuation and capitalization:

Copy exactly

Use capital letters at beginnings of headings

Start each part of a structured heading with a capital letter

Start the word after a comma in an inverted heading with a capital letter

Separate parts of a structured heading by two dashes

- Structured headings can be *topical*, *geographical*, or *free-floating* subdivisions.
 - *Topical* – included in main list of headings, valid subdivisions in bold, can have more than one hierarchical level:

Mars (Planet)
-- **Exploration**
----**Equipment and supplies**

Mars (Planet)—Exploration—Equipment and supplies

¹⁶ References: V. Broughton, *Essential Classification*, London, 2004, pp. 103-136.

- A pattern heading is one that can be copied for other headings of the same type, e.g.,
Cattle is a pattern for all headings for animals:

Cattle

--**Anatomy**

----**Atlases**

Cattle—Anatomy—Atlases

Horses—Anatomy—Atlases

- *Geographic* – look for instruction (May Subd Geog) or look at 008 coding field, countries can be added directly to heading, other units should have country inserted except for states and provinces, if more than one place is indicated, use separate headings for each place:

Raffia work – Belgium

Floppy disks – Iceland – Reykjavik

Molecular biology – Manitoba

If you are using the web version of Library of Congress Authorities, look at 008 field, position 6 (counting in from 0). If there is a “i,” you can subdivide geographically, but if it is blank, you cannot.

For example:

Prayer	008 860211i anannbabn a ana (can subdivide)
Dioceses	008 860211i anannbabn a ana
Religion	008 860211 anannbabn b ana (cannot subdivide)

Outside Canada, US and Great Britain, the collecting level is the country. Inside Canada, US, GB, the collecting level is the province, state, or constituent country. For other countries, the collecting level is the country:

Dioceses—Missouri — St. Louis

Prayer—Ontario — London

Prayer—Scotland — Dundee

Dioceses—Germany — Frankfurt

- Put the geographical subdivision in the correct place if using with topical subdivision:

Goats (May Subd Geog)

-- Breeding

--Equipment and supplies

Goats—Scotland—Breeding

Goats – Breeding – Scotland

Goats – Scotland – Equipment and supplies

- Put the geographical subdivision before a free-floating subdivision.

- *Free-floating* – added to improve subject description, most apply to all headings, but some can be used only with certain heading types, make separate headings if need to use more than one free-floating subdivision (don't combine), you can have geographical and free-floating subdivisions in same heading.

English language – History – 17th century

APPENDIX III ORAL HISTORY

This discussion is based on best practice guidelines from the Oral History Association.¹⁷

Hold a pre-interview meeting

- Obtain the interviewee's agreement to be interviewed and schedule a pre-interview meeting. During this meeting, give the interviewee information about the topics you will be discussing, why you are doing the interview, how you will do the interview, and have her get the consent form signed (one for each interview.)
- Make sure the interviewee understands that the interview will be recorded and be preserved in the archive and may be available for others to listen to. Make sure she understands that copyright will belong to the archive.
- Explain that the interview will be 30 minutes long and agree on a quiet location for recording where you will not be interrupted. Try not to exceed 30 minutes.

Prepare for the interview

- Prepare an outline of interview topics and open-ended questions to use as a guide, but do not rely on it. Allow the interview to flow like a conversation and allow the interviewee to make detours.
- Find a quiet location in which to conduct the interview where there will be no interruptions, including visitors knocking at the door or telephone ringing. If necessary, put a *Do Not Interrupt – Recording In Progress* sign on the door.
- Test your equipment before the interview to make sure the battery is charged, and everything is working.

¹⁷ Oral History Association, 'Principles and Best Practices,' <http://www.oralhistory.org/about/principles-and-practices/>

During the interview

- At the beginning, record the name of the interviewee and your name, the month, day and year, and the location of the interview. For example:

"Today is Thursday, October 23, 2014, and this is an interview with Sister Jane Smith at her home at 485 Windermere Road, London, Ontario. My name is Beth Brown, and we'll be talking about Sister Jane's memories of working as a nurse at St. Joseph's Hospital."

- Keep the digital recorder or video camera running throughout the interview. It is very easy to turn it off or pause it, and then forget to turn it on again! It is also easy to miss critical information when it has been paused and then the interviewee starts talking again before you can hit the record button.
- Make eye contact and minimize the time spent looking at your outline or adjusting your equipment. Nod to encourage the interviewee to keep speaking and to show you are listening. Listen carefully! You may need to ask probing or follow-up questions.
- If your question triggers another memory, allow the interviewee to move away from your question and talk about something else she remembers. This may lead to exciting new discoveries!
- Respect the right of the interviewee to refuse to discuss a subject. Do not challenge or argue with an interviewee on any topic. Do not voice your own opinions, even if you disagree with the interviewee's opinion.
- Don't interrupt. And be careful – sometimes people just pause at the end of a sentence to gather their thoughts or because they are thinking. Give them time before you ask another question. Often, they will indicate that they are finished talking if the pause is too long.
- Try to end the interview at 30 minutes. If the interviewee is tiring before 30 minutes, end the interview sooner.

Have good questions

- The main goal is to encourage a relaxed, conversational atmosphere as opposed to a formal interview.
- Don't be the one doing all the talking. Just ask questions to get the conversation started, to keep it going, and to clarify any points. Your voice should not be the one that is mostly heard on the tape.
- Ask open-ended questions, not closed questions. Open-ended questions are WH-questions (who, what, when, where, why, how). Closed questions are yes-no questions. Think about this - which question is likely to get a fuller response: "*Did you enjoy nursing?*" or "*What did you enjoy about nursing?*"
- Use short questions, not multiple part questions. For example, avoid "*Can you tell me about leaving home to enter the convent and how you felt?*" Ask instead, "*What was it like leaving home to enter the convent?*"
- Don't ask leading questions. For example, avoid "*Wasn't it great to live in Windsor during the boom years?*" Ask instead, "*What was it like living in Windsor during the boom years?*"
- Use follow-up questions to get more detail. For example, "*When did that happen?*" "*What did you think about that?*" "*Can you give me an example?*"
- Make sure you get clarification about anything that is unclear. If the interviewee uses hand gestures or points to something, make sure you follow-up with a question so the information is recorded, e.g., "*Do you mean it was a winding road?*"
- Make a brief statement at the end of the interview, for example,
"*This is the end of the October 23, 2014, interview with Sister Jane Doe.*"

After the interview

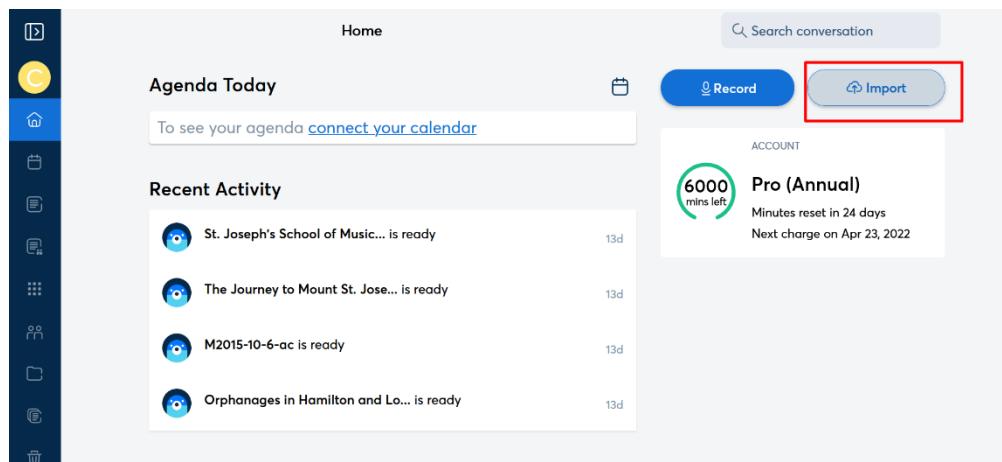
- Fill out the oral history datasheet. This is a written record of the date of the interview, the participants, the length of the interview, and a short summary of the interview. The archivist needs this to accession the recording.
- Listen to each interview afterward to see how you can improve your interviewing techniques.
- Follow procedures for saving digital audio recordings in Section 16.
- If the sound recordings are to be transcribed, it will take six hours for every one hour of sound recording unless you use speech recognition software like Otter.ai. In this case, it takes about three and a half hours to transcribe and check one hour of sound recording.

Using speech recognition software and captioning videos

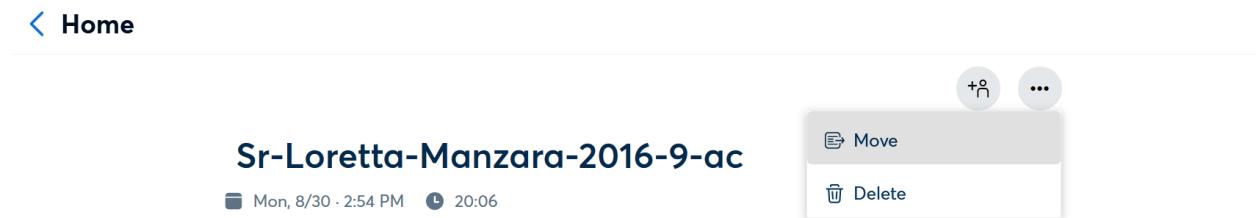
To make audio transcripts

Log in to Otter.ai (<https://otter.ai/>)

Import the audio.



Choose the three dots at the top-right corner of the screen and choose “Move” to move imported audio file to the TO DO folder on left menu bar.



Click on desired audio file in TO DO folder.

Click “Edit” button and identify speakers.

A screenshot of the application showing the transcription interface. The title 'Sr-Loretta-Manzara-2016-9-ac' is at the top, followed by recording and timestamp information ('Mon, 8/30 2:54 PM' and '20:06'). Below this is a 'SUMMARY KEYWORDS' section with a list of words: conservatory, sister, teaching, building, piano, piano lessons, prefab, began, music, studio, wonderful, students, move, school, examinations, staff, windermere, lessons, recital, continue. Under 'SPEAKERS', it says 'Speaker 2 (95%), Speaker 1 (5%)'. At the bottom, a play bar shows a red circle with the number '1' and the text 'Speaker 1 0:01'. The text 'It is February 11 2016. I'm Thomas Littlewood and I'm here with sister Loretta manzara at' is displayed below the play bar.

Listen to audio and make appropriate corrections as needed.

The screenshot shows a transcription application with two speakers. Speaker 1 (red circle) has a timestamp of 0:01 and the text: "It is January 24 2015. This is Sister Christine Carbotte talking to Sister Mary Rice, and she has something she's written that she'd like to share about her life. Go ahead Sister Mary." Speaker 2 (yellow circle) has a timestamp of 0:14 and the text: "The Charismatic Renewal and the experience of Sister Mary Rice, 70 years in religious life and 90 years in age, January 21, 2015. May the Lord be praised. I entered in 1944. Sister Carmela was the novitiate mistress, kindly and instructive. According to our rule, we were to read the gospel for 15 minutes each Saturday. I found this a task, because I had read it before. In the 1960s, Pope Pius the 12th urged scripture scholars to get the Bible into the hands of the people. I purchased my first own Bible. About this time, I took a scripture summer school at St. Paul's University in Ottawa, by the forest jack was an outstanding scripture scholar. I remember being so thrilled when I read in Genesis, that God was so interested. so close as to walk in the garden. in the cool of the evening with Ada All changes saved". At the bottom right are Undo, Redo, my staff, and talk about buttons. Below the text are three circular icons with arrows: left, right, and double right. A red box highlights the right and double right icons.

Shortcuts:

Keyboard shortcuts for Audio playing		Close
Ctrl-Space or ESC	Play / Pause	
Ctrl-R or Left Arrow	Rewind 5 seconds	
Ctrl-3 or F3	Slow down	
Ctrl-4 or F4	Speed up	

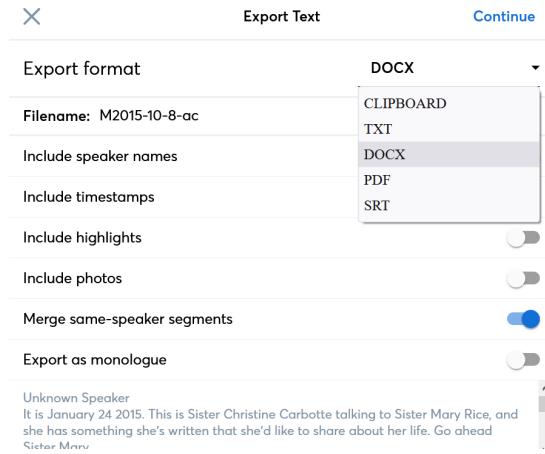
Keyboard shortcuts for Transcript editing	
Enter or Return	Insert paragraph break.
Backspace or Delete	Delete paragraph break and merge with previous paragraph.
Ctrl-Z	Undo an action.
Ctrl-Y	Redo an action.

Once all corrections are made, click the “Done” button.

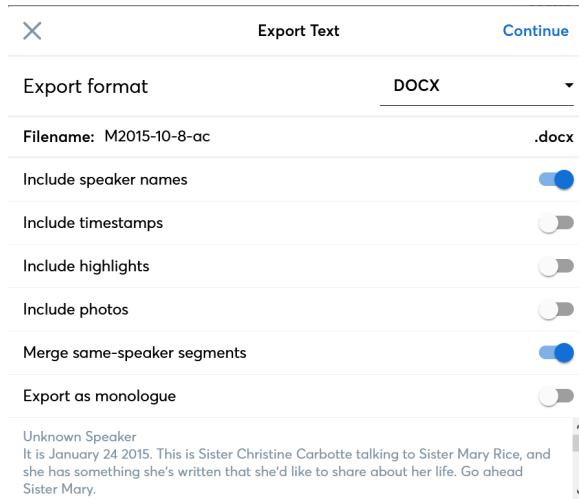
The screenshot shows a transcription application window titled "Sr-Loretta-Manzara-2016-9-ac". It includes a timestamp bar (Mon, 8/30 - 2:54 PM, 20:06), a summary keywords section with terms like conservatory, sister, teaching, building, piano, piano lessons, prefab, began, music, studio, wonderful, students, move, school, examinations, staff, windermere, lessons, recital, continue, and a "Done" button highlighted with a red box. There are also a pencil icon, a plus sign icon, and an ellipsis icon.

Choose the three dots at the top-right corner of the screen, then “Export text” to export transcript.

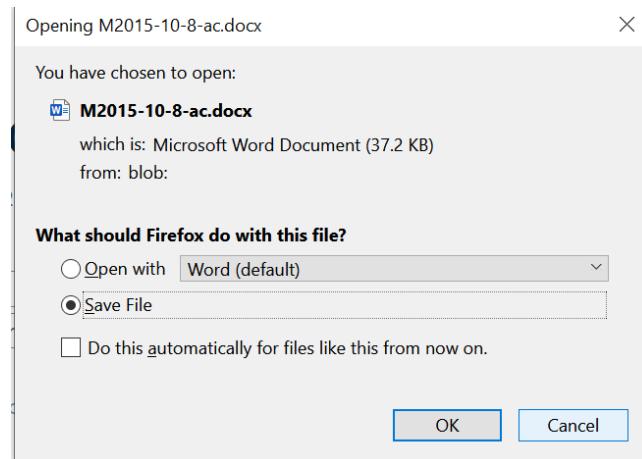
Choose DOCX (Microsoft Word) as the “Export format.”



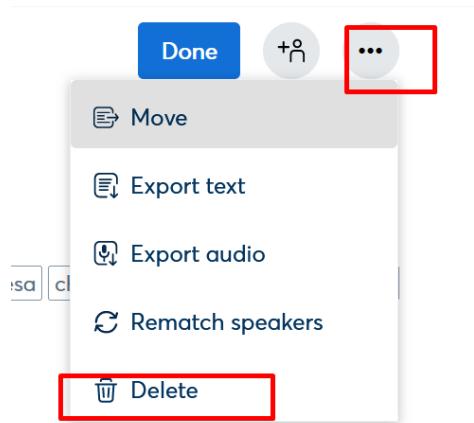
You can select additional options by moving the sliders:



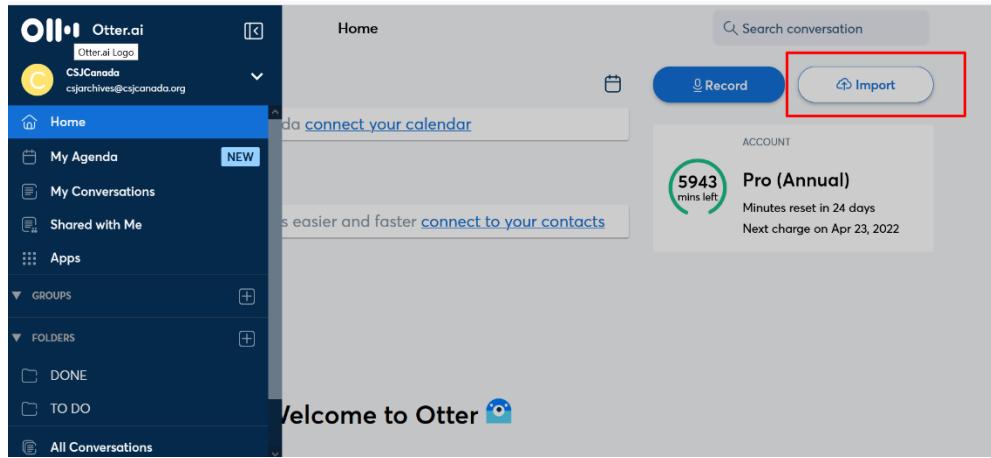
Click “Continue” and save file to computer drive.



Delete any completed files by choosing the three dots at the top-right corner of the screen, then “Delete.”



To make video captions
Import the video in Otter.ai.



Make corrections to the video transcript as you do for audio transcripts.

When finished, choose the three dots at the top-right corner of the screen, then “Export Text.”
Select “SRT” as the “Export format.”

Select options by moving the sliders as shown below:

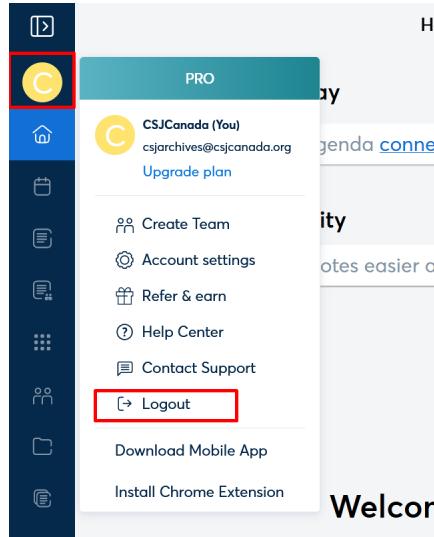
The dialog box has a header "Export Text" with a close button "X" and a "Continue" button. It contains the following settings:

- Export format:** SRT (selected)
- Filename:** Orphanages in Hamilton and London, Ontario (with extension .srt)
- Include speaker names:** Enabled (blue switch)
- Add line breaks automatically:** Enabled (blue switch)
- Max number of lines (1-10):** Set to 2
- Max characters per line (5-200):** Set to 50

At the bottom, it says "No preview available for SRT".

Select “Continue” to export the file and save it to the computer drive.

When you are finished, log out by choosing the C button on the left menu bar.



Adding captions to a video

Log in to Vimeo (<https://vimeo.com/>) and choose “Videos” under account:

The screenshot shows the Vimeo homepage with the user profile 'CSJ Canada Archives' selected. The profile dropdown menu is open, showing 'Videos' (highlighted with a red box and an arrow), 'Collections', 'Analytics', 'Likes', 'Watch Later', 'Purchases', 'Settings', 'Messages', 'Refer a friend', 'Help', and 'Log out'. The main content area features a banner for 'Video messaging for your team.' and a section for 'Recent videos'.

Double click on video you want to add captions to:

The screenshot shows the Vimeo web interface. On the left is a sidebar with options like Home, Videos, Create, Live events, Showcases, and Try Vimeo Pro. The main area is titled 'Videos' and shows three items. The first item is highlighted with a red box and has a red arrow pointing to it from the text 'Double click on video'. The video title is 'Orphanages in Hamilton a...'. The other two items are 'St. Joseph's School of Mu...' and 'The Journey to Mount St. ...'. Each video item has a set of small icons below it.

Choose “Advanced” from right hand menu:

The screenshot shows a video player window. At the top, there are sharing options: Public, Embed, and Publish to social. Below that is a video thumbnail for 'Orphanages in Hamilton and London, Ontario'. The video title 'Orphanages in Hamilton and London, Ontario' is displayed prominently. In the bottom right corner of the player, there is a red box highlighting the 'Advanced' button, which is part of a larger menu that includes Privacy, Player, Analytics, and Advanced.

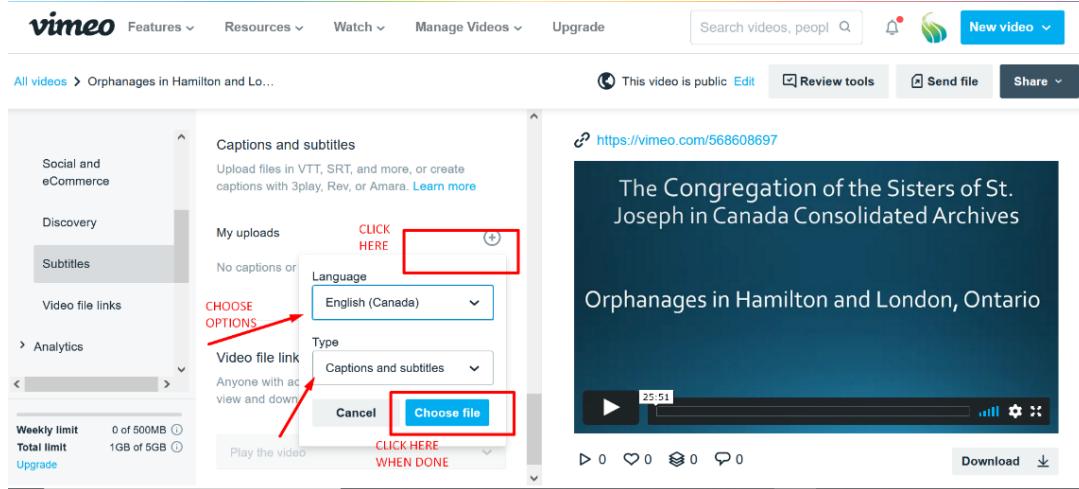
Choose “Distribution” from left hand menu:

The screenshot shows the Vimeo developer dashboard interface. On the left, there's a sidebar with various options like 'Collaboration', 'Embed', 'Interaction tools', 'Distribution' (which is highlighted with a red box), 'Analytics', and 'Upgrade'. The main content area shows video details for 'Orphanages in Hamilton and London, Ontario'. It includes fields for 'Title (required)' and 'Description'. The video thumbnail features the text 'The Congregation of the Sisters of St. Joseph in Canada Consolidated Archives' and 'Orphanages in Hamilton and London, Ontario'. Below the video player, there are download and sharing options.

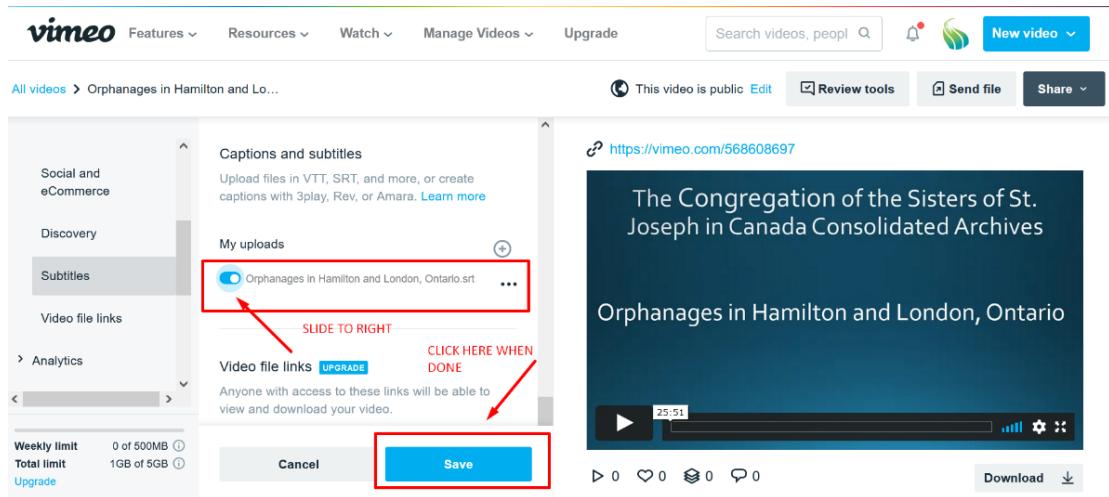
Choose “Subtitles” next:

This screenshot shows the 'Distribution' section of the Vimeo developer dashboard. The 'Subtitles' option in the sidebar is highlighted with a red box. The main content area displays social media integration settings for 'Facebook', 'Youtube', and 'Twitter', each with a 'Connect' button. The video preview and other interface elements are identical to the previous screenshot.

and then click on + sign and select options. Select SRT file from computer drive:



Make sure slider is moved to right and then “Save” when done:



APPENDIX IV DECEASED SISTERS

When a Sister dies, the *Deceased Sisters' Personal Records Policy* and congregational records retention and disposal schedule must be followed. All files relating to deceased Sisters should be transferred to the archive by January 1st of each year at the latest. These records are used to prepare biographies of Sisters.

Recording and storing biographical information

The Congregational Archivist will record the death date, name of Sister, and diocese with which she is affiliated on the table of *Deceased Members-Main*. Copies of the obituary are printed and placed in the Sister's personal file and in the obituary binder.

Electronic copies of the obituary and any eulogy or reflection renamed following the format “Obituary-Surname” or “Reflection-Surname,” and is stored as a PDF/A in the *Biography-Main* folder on the computer, in subfolders organized by year.

The drop file for a living Sister and transferred files relating to a deceased Sister are to be combined by archive staff, who apply a standard order to all files, following the instructions given here.

1. Undertake basic preservation. Make sure small or fragile records are enclosed separately. Replace acidic enclosures. Photocopy newspaper clippings or put in an acid and lignin free sling and discard the original clippings. Paper clip pages together if they belong together. Remove all plastic, sticky notes (copy important metadata first), paper clips, etc. Use a yellow folder for the outside enclosure.
2. Very old or fragile photographs should be enclosed separately, otherwise place several same sized photographs together in an enclosure. All enclosures should be labelled with Sister's name at the top.
3. Complete the vital records checklist. This will go at the very front of the folder.

4. Organize records as follows:
 - a) Vital records checklist.
 - b) Data forms (include all duplicates).
 - c) Vital records (in a long white envelope labelled with the Sister's name at the top).

Include anything that has vital record information, **even if it is not on the checklist**.
Do not include duplicates unless small or fragile. Place duplicates with miscellaneous records near the back of the folder. Do not include data forms in the envelope.
 - d) Personal health records (in a white folder labelled with the Sister's name, year of death, and "restricted"). Place any health records that are not indicated on the vital records checklist in the secure shredding bin.
 - e) Photographs.
 - f) Correspondence (to, from or about the Sister during her lifetime. Correspondence received after death goes with miscellaneous records).
 - g) Miscellaneous (including duplicate vital records).
 - h) Certificates (in a white folder labelled with the Sister's name).
 5. If combining material from one file folder with another to reduce the number of folders make sure that if there are any accession numbers, these are transferred to the new folder.
- For deceased Sisters in the London diocese, three further steps are taken:
1. Update all files in the *Biography-London* folder on the computer, including the subfolders *London Sister Dates* and *London Sister Names*.
 2. Using the *Obituary Index-London*, number and file a print copy of the reflection and obituary in F01-S097 Death Records series.
 3. Note the date of death in the binder containing reception and death information.

Preparing biographies

The Congregational Archivist is tasked with preparing biographies of deceased Sisters by mid-January of each year for the Federation *Dictionary of Biography* database. Until the Peterborough archive is consolidated, staff should send biographies for entry into the database directly to the Congregational Archivist, not to the Federation Archivist. All biographies for the congregation will be edited and the data entered in the database by the Congregational Archivist. Following this, biographies for the preceding year will be downloaded and sent to the Federation Archivist.

APPENDIX V PRESERVATION METHODS

Pest control

Practice integrated pest management by checking insect traps frequently. If insects are found, follow this procedure:

For flying insects, spray with Windex until you can catch it.

Using tweezers, carefully place the insect in a clean container that has been half-filled with isopropyl alcohol. Once the insect has sunk to the bottom, slowly add more isopropyl alcohol. Label the jar with the date and location.

Identify using a hand-held microscope.

How to make an L-enclosure



1. Measure the height and width of the photograph or artwork.
2. Cut two sheets of mylar film the same size but allowing 1" extra on all sides.
3. Place one sheet of mylar lined up squarely along the grid lines of a self-healing mat. Put a weight on top.
4. Using the grid lines on the mat, apply a piece of 3M #415 encapsulating tape along the left side and the bottom of one sheet of mylar, leaving a small space between each piece of tape in the corner.
5. Place the other sheet of mylar on top. Carefully, beginning with the top left-hand side, peel the paper away from the tape, pressing down on the mylar as you go.
6. Round the corners.
7. The result is two sheets of mylar sealed in an L-shape with tape. The photograph is inserted from the top right-hand side.
8. **Encapsulation** involves taping all around the item so that it is completely sealed.

How to make a phase box

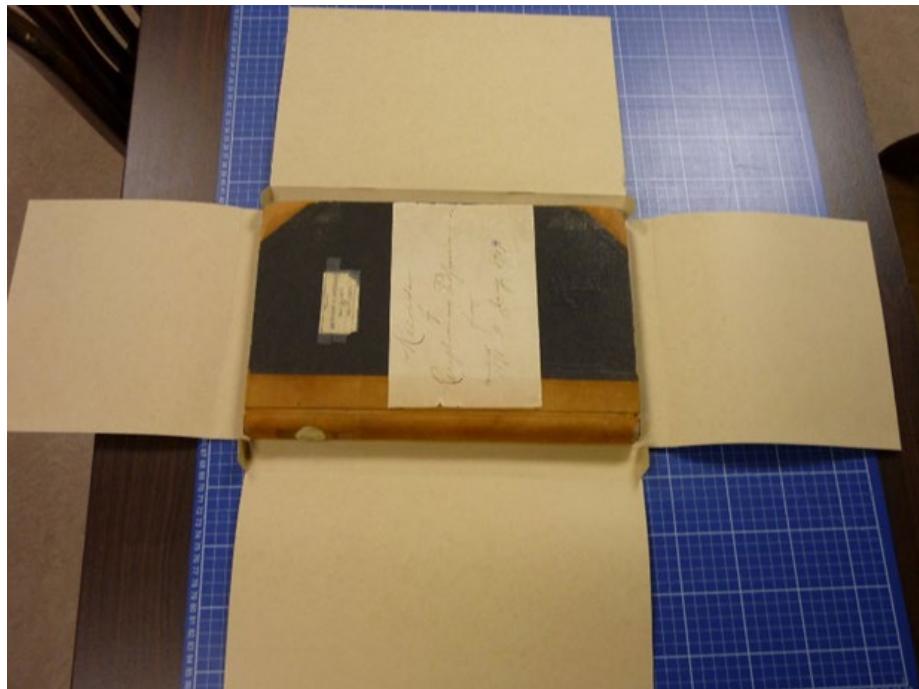
We make phase boxes to protect fragile volumes and help prevent red rot, shown in this picture:



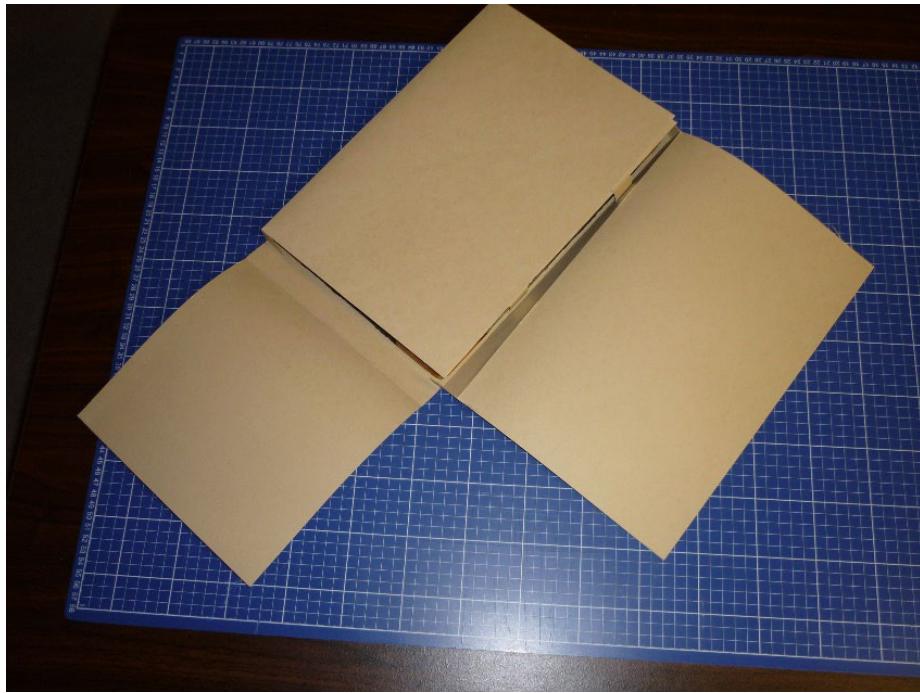
This picture shows a completed phase box:



1. Measure the height, width, and spine of the book.
2. Take a sheet of map folder stock that is at least 40" x 28".
3. Measure the height of the book along the top and draw a horizontal line.
4. Cut off the excess above this line.
5. Next, you will be measuring out five measurements across the sheet, beginning from the left side. Draw a vertical line at each measurement.
6. Measure the width.
7. Measure the spine.
8. Measure the width.
9. Measure the spine.
10. Measure the width.
11. Cut off any excess after your last vertical line.
12. Take a second sheet of map folder stock. You can probably use the excess you cut off earlier.



13. Measure the width of the book along the top and draw a horizontal line.
14. Next, you will be measuring out five measurements across the sheet, beginning from the left side. Draw a vertical line at each measurement.
15. Measure the height.
16. Measure the spine.
17. Measure the height.
18. Measure the spine.
19. Measure the height.
20. Cut off any excess after your last vertical line. If you are short on the last measurement, it is okay.
21. Fold along all the vertical spine lines using a ruler and bone folder.
22. Round all the corners.
23. Using 3M #415 encapsulating tape, attach the two parts together. Lastly, fold in, starting with bottom flap, then top flap, then left flap, then right flap.
24. Write any information on the front of the phase box using a pencil.
25. Insert the book.
26. Tie with cotton twill tape.



How to flatten rolled paper items

*Don't use this technique with soiled items, items with tape or glue, items with friable media like charcoal and pastels, watercolors, or items with water soluble media like felt markers.

Supplies:

Plastic box with lid, plastic risers, plastic grating	OR plastic garbage can with lid, small garbage can
Spun polyester (Reemay)	Blotting paper
Weights	

Box type humidifier

1. Add water to midline of risers.
2. Line rolled items with spun polyester or use weights to hold open.
3. Place on grating.
4. Cover with lid. The time will vary from a couple of hours to a few days. Check each day.
5. Remove lining, place item on spun polyester on top of blotting paper. Cover with spun polyester and another blotting paper. Weight.

For photographs, put spun polyester on edges of photo and weight edges. DO NOT put anything on top of gelatin emulsion.

Horton type humidifier

1. Wet blotting papers and place on sides of large garbage can.
2. Line rolled items with spun polyester.
3. Line small garbage can with spun polyester.
4. Place items inside small garbage can and cover with spun polyester.
5. Put on lid.
6. Change blotting papers every day.

Simple display mats

Supplies:

Acid and lignin free paper	3M #415 tape
4 to 8 ply cotton rag white mat board	Polyester (Mylar)
Weights	

Paper channel support

1. Cut two strips of paper 3"-4" longer than the width of the item and 1" wide. Fold in half along the length to make two channels.
2. Center the item on the mat board and insert it into the channels. Close the channels and tape to the mat board across the ends of the channels.

Polyester wrap

1. Lay the item on mat board and mark the board outside the item. Remove the item.
2. Cut the mat board slightly larger than the item dimensions.
3. Cut a sheet of Mylar 4" larger than the mat board in all directions.
4. Center the mat board on the Mylar and weight it. Cut the corners of the Mylar in V-shapes.
5. Center the item face down on the Mylar and put the mat board on top. Weight it.
6. Fold over the Mylar flaps on two adjacent sides and tape to the back of the mat board.
7. Remove the weight, check the item's position, and tape the other sides.

How to clean and repair paper

*Do not use these steps to clean pastel, pencil, charcoal, or items with flaking paint.

Supplies:

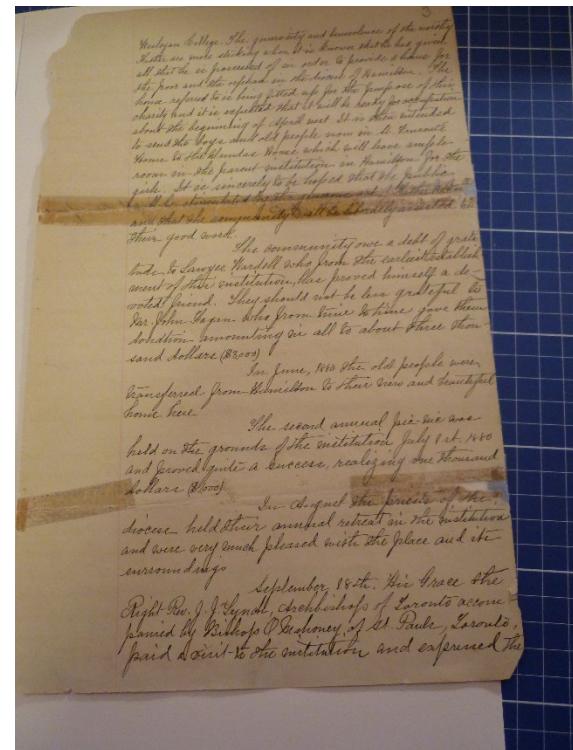
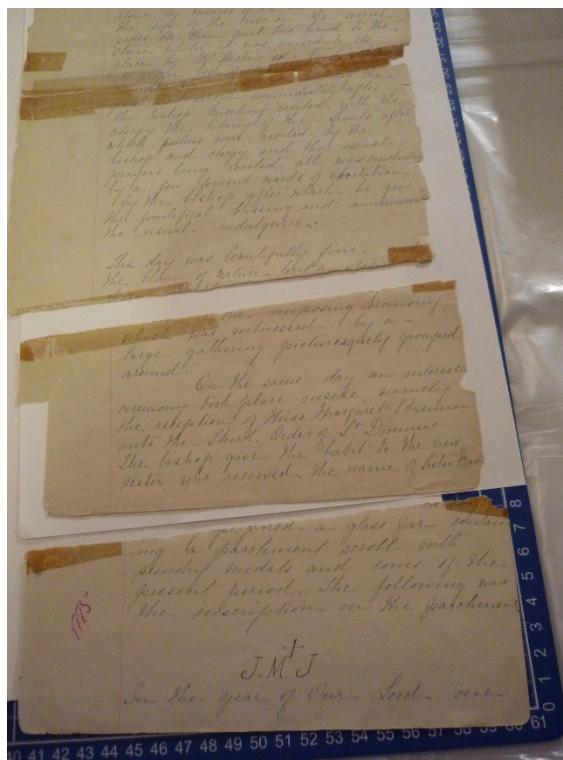
Natural bristle brushes (fine, for pasting, and for dusting)	Vulcanized rubber dry cleaning sponges (store in airtight container in the dark)
Creped rubber adhesive pickup	Vinyl eraser
Powdered eraser	Kozo paper
Bone folder	Corked back ruler
Blotting paper	Spun polyester (Reemay)
Methyl cellulose (mix 1 T powder with ½ c distilled water, stir, let stand several hours then thin to consistency of mayonnaise with distilled water)	
Tweezers	Weights

Cleaning paper

1. Remove plastic envelopes, acidic wrapping paper, cardboard backings, dried adhesive tape, and metal fasteners.
2. Don't clean the actual media, just the paper support around it.
3. Brush with a soft brush, and after a few strokes, brush on blotting paper to remove dirt. Brush both sides of paper.
4. Creped rubber adhesive pickup can lift off adhesive tape residue. Rub with short gentle strokes.
5. Gently clean small dirty areas with vinyl eraser, rubbing randomly in different directions.
6. In dirty areas, rub powdered eraser with fingertips in circular motion and brush away.
7. Use vulcanized rubber sponge by gently rubbing randomly in different directions and brushing away.
8. Dirty sponge and erasers can be cut away.
9. Don't erase any notes on the margins or back of paper.

Repairing tears

1. Make a crease in Kozo paper using a bone folder and ruler. Draw a line with a brush dipped in water. Pull strip away from paper along this crease.
2. Cover blotting paper with spun polyester. Place artwork on top.
3. Put piece of blotting paper under Kozo paper and apply methyl cellulose with a brush.
4. Lift with tweezers and put over the back of the tear or on the side without the art or text if possible.
5. Brush with dry brush. Cover with spun polyester, blotting paper and weight.



How to clean photographs

You can use a 50:50 mix of distilled water and isopropyl alcohol and a cotton swab for cleaning water soluble dirt. These are the guidelines given by Greg Hill of the Canadian Conservation Institute:

Dampen a cotton swab with the alcohol/water mix. Roll the swab lightly across a piece of blotting paper to absorb a lot of the liquid. Then, gently roll the swab across the surface of the print. Do a small test in a corner first to make sure the emulsion/gelatin layer is not sensitive to water. If you are cleaning color photographic prints, the image can go slightly milky on the surface, but that will disappear when the gelatin dries. Try not to scrub the surface. Some prints will also curl if the emulsion is wetted out in any way, another reason for using only a small amount of moisture. You should consider putting the prints between blotters under weights immediately following cleaning. If the surface is tacky after cleaning, let it dry somewhat before putting it between blotters. You may need to repeat the cleaning a couple of times to make sure it doesn't end up looking streaked.

APPENDIX VI TEMPLATES AND FORMS

All templates and forms you will need are included in this section.

SEPARATION SHEET

Items:

Original location:

Current location of items:

Reason for removal:

Photographs

Fonds and series title	
Number	
Extent	



WITHDRAWAL SHEET

In the review of this file, the item(s) identified below are restricted to access:

Fonds and series number:

Title: _____

What is restricted (list all series and files. If single items only, list them):

Who is allowed access:

Authority for the restriction:

- (1) Protection of the privacy of living persons
- (2) Information restricted by statute or court order
- (3) confidential business and financial information
- (4) confidential decision making
- (5) request made in deed of gift or by transferring office

Date: _____



CONDITION REPORT

Assessment Date: _____

Object Name: _____

Identifier (Accession Number): _____

Purpose of assessment:

Accession Exhibition Loan Inventory

Inspection Results:

Excellent condition Good condition Fair condition Poor condition

Materials (check all that apply):

Leather, parchment, vellum, fur Textile Ceramic Metal Plastic
 Wood Glass Paper Stone Other material

Conditions Noted:

- Alterations
- Breaks
- Burns
- Chips/dents/flakes
- Corrosion
- Cracks
- Creases/wrinkles
- Discoloration/fading
- Fraying
- Holes
- Loose/missing parts
- Mold Active mold Mold stains
- Pests Active pests Pest damage or residue
- Scratches
- Stains
- Tears/ rips
- Warping/buckling
- Dirty/dusty
- Other, specify under Notes on reverse

Notes:

Recommendations for Treatment

- No treatment needed
- Treatment needed by conservator
- In-house treatment

Recommendations for Exhibition and Storage

Signature

Date



RELEASE FORM

I _____ grant to the Congregation of the Sisters of St. Joseph in Canada (the Archives) the right and permission in respect of the photographs, or videotape or sound recordings and their captions and transcripts, that it has taken or has had taken of me, or in which I may be included with others, to copyright the same and use it in whole or in part in any media for publication, display, education, research, promotion, or any other purpose that befits the mandate of the Archives, and to use my name if it so chooses in connection with this.

I release the Archives from any and all claims and agree that the Archives may assign and transfer these rights. I understand that I will not be compensated. I am of full age of consent and have read this and agree to it. This release is binding on me and my heirs, executors, administrators, successors, and assigns.

Name

Date

Witness

Date

Oral Histories Datasheet

Please fill out this form for each interview conducted.

Identifier	
Name(s) of interviewer(s)	
Name of interviewee(s)	
Location of interview	
Date of interview (year/month/day e.g., 2014/08/04)	
Duration of interview (hour:min:sec e.g., 01:05:26)	
Keywords	

Summary of interview (attach extra sheets if needed):

Vital Records Checklist

NAME _____

Record	Check ✓ if in file
Birth certificate (envelope)	
Baptism certificate (envelope)	
Confirmation certificate (envelope)	
Agreement and Release (envelope)	
Patrimony records e.g., green (dowry) slip and index card (envelope)	
Data forms	
Last will and testament (envelope)	
Power of Attorney for Personal Care (envelope)	
Death certificate (envelope)	
Obituary (envelope)	
Reflection/Eulogy (envelope)	
Passport – Cut off top right corner of cover (envelope)	
Personal health information (includes records related to physical or mental health including family history, health care provider, health care payments, body part donations, health number, substitute decision maker) (white folder labelled with name, “restricted” and year of death)	

Glossary

Accession: Materials transferred to the archive as a unit at a single time, also known as an acquisition. Also, to take legal and physical custody of a record group and document their receipt, either through transfer, donation, or purchase.

Access copy: a digital surrogate that is a lower resolution and saved in a compressed format for use in printing or on the web.

Accrual: Records that are added to an existing fonds or series.

Acidic: When the pH level of material is below 7, the material is acidic. Acid in a material may migrate to other materials. Paper becomes acidic due to the acids used to break up wood fibers during manufacture, the lignin in the ground wood pulp base, the chlorine added to bleach it, and the alum rosin used for sizing.

Archival processing: The arrangement, description, and housing of archival materials for long-term preservation and for access by patrons.

Arrangement: The process of organizing materials with respect to their provenance and original order, to protect their context and to achieve control over the materials. Records are organized hierarchically into fonds or group, sous-fonds or sub-group, series, subseries, file, and item.

Artifact: An object which is not text, an image, audio recording or moving image. Usually refers to an object made by a person, such as a vase or tapestry.

Bit depth: For audio digitization, this refers to the dynamic range. The higher the bit depth the more data. 8-bit is how image data is stored electronically. Each pixel is made up of one 8-bit byte. Bit depth is measured in 8, 16, 24 or 48-bits. If compared to a staircase, bit depth is the number of steps. For image digitization, bit depth is the number of bits used to represent the color of a pixel.

Channels: For audio digitization, sound may be recorded in one channel or mono, or in two channels or stereo.

Checksum: An MD5 checksum is produced by software that reads the bits in a file and generates a unique 32-character alphanumeric string or a “hash value.” This string can be compared with a string resulting from running the software again at a later point. If the strings are the same, the file has not been changed. In **BWF MetaEdit** software the checksum is run on the audio data so that editing metadata does not change its value.

CMYK: Cyan, magenta, yellow and key (black). This is a color model used for printing. The three-color inks plus black are combined on white paper to form images.

Collection: A group of objects or records artificially brought together which have different provenance. Often the objects or records are organized by subject, as in a library collection of books.

Color depth: known as bit depth. The number of shades of grey or colors in a pixel measured in bits. A bitonal (black and white) image is made up of one of 1-bit (2^1 or 2 colors) per pixel. Grayscale images are made up of one of 8-bit (2^8 or 256 colors) per pixel. Color images are made up of one of 24-bit (3 colors, 8-bits per color, $256 \times 256 \times 256 = 16$ million colors) per pixel.

Color profile: The range of colors or gamut that can be displayed or printed. Adobe RGB is a wide gamut space that allows more color information to be captured.

Conservation: The repair or stabilization of materials through treatment; the act of restoring damaged materials.

Description: The process of analyzing, organizing, and recording information about the elements of a record or record group such as creator, title, dates, extent, and administrative history or biographical sketch, to facilitate management and accessibility of the records. This process generates an archival description, also known as a descriptive inventory. Records may be described at the fonds level, the series level, the file level, and the item level.

Disk image: this is a way to copy an entire drive. Besides copying files, it will also copy empty space, deleted files, and hidden files. A disk image can be created using software like **FTK Imager** or **Guymager** in **Bit Curator**.

Dot gain: this describes how much ink will spread on paper when printing.

Dynamic range: This is the ratio between the largest and smallest value in an image (brightest and darkest pixel) – if compared to a staircase, it is the height of the steps. A scanner should have a dynamic range or DMax (darkest black measurement) of 4.0

Enclosure: A container used for storage, for example an envelope, a phase box, a folder, or a box.

File: Records which are organized at a level below that of the series; the basic unit of the series. At the file level, records may be organized alphabetically, chronologically, geographically, or some other way.

Finding aid: A tool that helps the patron discover information about records, for example a list of folders in a box, a list of series and files within a fonds, or an archival description of a fonds or series.

Fonds: The whole body of records created by an organization, family or individual that have been created or kept by that entity during regular activity and which reflect the functions and activities of the entity. Also known as a record group.

Grayscale: A grayscale image has a single channel, with tones ranging from black to white. It may be either 8-bit (256 levels) or 16-bit (65,536 levels). A color image has three 16-bit grayscale channels (R, G, B) for color and brightness. These are 48-bit images which can be downsized to 24-bit images.

Item: The individual records contained within a file; the basic unit of a file. An item is complete, although it may have separate parts, such as a letter and its envelope.

Logical copy: this means copying selected files only, and no deleted files, no file system features, and no empty space. A logical copy can be created using software like **Data Accessioner, Bagger, and Teracopy.**

Metadata: Information about the record that describes its context, content, and structure. This information is critical for future preservation.

Migration: Converting material from one software or hardware to another, for example, converting Word Perfect files to Microsoft Word files.

OCR: Optical character recognition is the electronic conversion of an image into readable text by identifying characters as computer code and saving as a text file.

Original order: The organization and sequence of records established by the creator of the records.

pH level: A scale from 0 to 14, where values below 7 are acidic and above 7 are alkaline. Buffered materials contain calcium carbonate to raise the alkaline level.

PPI: stands for pixels (picture elements) per inch which is how to properly talk about image resolution. DPI or dots per inch is how to talk about printer resolution.

Preservation: Keeping materials safe by providing non-invasive, reversible treatment, environmental control, and planning for emergencies; the act of preventing damage to materials.

Preservation master: a digital surrogate which has had minimal adjustment made and which is high resolution, uncompressed, non-proprietary format, and contains metadata.

Provenance: The origin or source of something, or the person or body that created, acquired, used, and kept records during daily activity.

Record: Information recorded in some form which provides evidence of activity and can help ensure accountability for future actions and decisions.

Reformat: To make a copy with a format or structure different from the original; to migrate information from one carrier to another. Reformatting typically means making analogue copies, for example, by microfilming the originals, or making copies on non-resin coated, acid and lignin free paper.

Refresh: To copy material on a specific storage media onto a new version of the same media e.g., to copy material on a DVD-R onto an archival gold DVD-R.

Resolution: this determines the quality of an image and is described by the pixel dimensions (height and width) of an image or by its size (PPI). Higher resolution images contain more information and are bigger in size.

Respect des fonds: The duty of an archivist to keep fonds separate depending on their provenance, and to maintain the original order of the records within the fonds as much as possible, to ensure the integrity, reliability, and authenticity of records.

RGB: Red, green, and blue. This is a color model where colors are added to get the correct color. White is all three-color channels at full intensity, and black is the lack of light across all three-color channels. This is a common color space used to view images on computer monitors.

Sample rate: For audio digitization, the number of samples per second is measured in Hz. The sample rate may be 44.1 kHz or 96 kHz.

Series: A group of similar records that are arranged according to a file plan, and are related as the result of being created, received, or used in the same activity; the basic unit of a fonds or sous-fonds.

Service master: a digital surrogate which has had some adjustments made and which is saved in an uncompressed, non-proprietary, high-resolution format. The adjustments which may be made include cropping, rotating, optimizing tone levels, managing color, cropping out color target, converting bit depth (16 > 8 for grayscale; 48 > 24 for color), and deleting dead air at beginning and end of audio file.

Sous-fonds: A smaller record group within a larger fonds, with a distinct creator who is subordinate to the creator of the fonds. For example, the records of an individual within a family. Also known as sub-fonds or sub-group.

Subseries: Records within a series that can be differentiated from the series by filing arrangement, type, form, or content.¹⁸

Tonal dynamic range: this is the color space between pure black (0) and pure white (255). It is shown as a histogram in **Photoshop** that represents the number of pixels in an image at selected values from black to white.

24-bit RGB: This refers to 24-bits per pixel in which three 8-bits between 0 and 255 represent red, green, and blue colors.

¹⁸ L. A. Millar, *Archives principles and practice*, London, 2010; R. Pearce-Moses, ‘A Glossary of Archival and Records Terminology,’ <http://www2.archivists.org/glossary>

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